HOWARD™
TECHNOLOGY SOLUTIONS

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PS50E STORAGE ARRAY

An unmatched entry point into an enterprise SAN, the PS50E provides an affordable option for organizations requiring a tactical storage solution with an eye towards future strategic growth.

DATA SERVICES INCLUDE:
• Auto-Replication
• Automatic Load Balancing
• Auto-Snapshot Manager[1]
• Auto-Stat Disk Monitoring System
• Volume Consistency Sets
• Multi-Path I/O[2]
• PS Group Manager
• Pooled and Tiered Storage
• RAID Load Balancing
• Snapshot and Auto-Replication
  Scheduler
• E-mail Home
• Storage Virtualization
• Volume Cloning
• Volume Management
• Volume Snapshot

EQUALLOGIC®
SIMPLIFYING NETWORKED STORAGE™

PS STORAGE STACK

PS Series storage arrays are stackable as multi-array system configurations for customized perform-ance and capacity

TECHNICAL HIGHLIGHTS

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
Disk capacity	250 GB*; 7,200 RPM SATA II
System capacity	1.75 TB**
Number of drives	7 (supports up to 14)
I/Os per second	60,000
Memory (battery-backed)	1 GB
Gb network interfaces	3
Copper (standard)	
Optical (SFP purchased separately)	
Sustained system bandwidth	Up to 140 MBps
Operating systems supported	Windows® 2000, Windows Server 2003, Windows XP, NetWare®, Linux, Solaris™, AIX®, HP-UX, Mac OS® X, VMware® ESX
Upgrade option	Can be online upgraded to PS70E or PS100E
Expansion option	Can be combined with other PS systems in a PS Storage Stack

RAID SUPPORT
Automatic RAID 5, RAID 10 and RAID 50 configuration

RELIABILITY
Redundant, hot-swappable controllers, power supplies/cooling fans, and disks
Write-back cache with 72-hour battery backup
Individual disk drive slot power control

ENCLOSURE MONITORING SYSTEM
Automatic spare configuration and utilization
SMART
Automatic bad block replacement
Auto-Stat Disk Monitoring System (ADMS) to monitor health of data on disk drives

MANAGEMENT INTERFACES
SNMP, telnet, SSH, HTTP, Web (SSL), host scripting
Serial console
Multi-administrator support

SECURITY
CHAP authentication
Access control for iSCSI and management interfaces

NOTIFICATION METHODS
SNMP traps, e-mail, syslog

POWER

Input voltage/power	100-240 VAC (auto-sensing) / 450 VA
Input current	4.0 A (maximum) @ 115 V
Input frequency	50-60 Hz
Power supplies	Dual 400 W
Power consumption	450 W

ENVIRONMENTAL

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
Thermal output	1,500 BTU per hour, 450 W (maximum configuration)
Shock	30 G for 2 ms operational / 30 g for 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

PHYSICAL

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)

AGENCY APPROVALS

Safety standards	UL 60950, CSA 60950, S Mark
	EN 60950 (Europe), CB Scheme
Electromagnetic Compatibility (EMC)	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)
C-Tick compliance	N 4292

LIMITED WARRANTY

2 years telephone support: business hours 5x9

1 year software maintenance and updates

2 years hardware (return to factory, first 90 days advance replacement, 1 year battery, 3 years on disks)

SUPPORT PROGRAMS

Complete Care	24-hour priority online/telephone access, software maintenance and updates, next business day advance hardware replacement
Complete Care Plus	24-hour priority online/telephone access, software maintenance and updates, four hour onsite advance hardware replacement

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

[1]Qualified for Microsoft Windows Server 2003 [2]Qualified for Microsoft Windows Server 2000 and 2003, Linux and Sun Solaris Operating Systems

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9 Townsend West, Nashua, NH 03063

Tel 603.579.9762 / Fax 603.579.6910 / www.equallogic.com

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