

S250 Series



CAPACITY ^{†1}	160GB	200GB	250GB
MODEL	HD162HJ	HD200HJ	HD250HJ

FEATURES

- Max. 250GB Formatted Capacity Per Disk
- SATA Native Command Queuing Feature set
- Enable / Disable Staggered Spin-up
- Hot-Plug and Presence Detect
- Device Initiated Power Management
- ATA S.M.A.R.T. Compliant
- ATA Automatic Acoustic Management Feature Set
- ATA 48-bit Address Feature Set
- Asynchronous Notification
- NoiseGuard™
- SilentSeek™

DRIVE CONFIGURATION

Interface	Serial ATA 3.0Gbps
Rotational Speed ^{†2}	7,200 RPM
Buffer DRAM Size ^{†6}	8 MB
Bytes per Sector	512 bytes

PERFORMANCE SPECIFICATIONS

Read Seek Time (typical)	
Average	8.9 ms
Average Latency	4.17 ms
Data Transfer Rate	
Media to/from Buffer (max.)	158MB/sec
Buffer to/from Host (max.)	300MB/sec
Drive Ready Time (typical)	8 sec

RELIABILITY SPECIFICATIONS

Non-recoverable Read Error	1 sector in 10 ¹⁴ bits
Start/Stop Cycles (Ambient)	50,000

ACOUSTICS (AVERAGE SOUND POWER)^{†3}

Idle	2.45 Bel
Performance Seek	2.8 Bel
Quiet Seek	2.75 Bel

ENVIRONMENTAL SPECIFICATIONS

Temperature	
Operating	0 ~ 60 °C
Non-operating	-40 ~ 70 °C
Thermal Gradient (max.)	20°C/hr
Humidity (non-condensing)	
Operating	5 ~ 90 %
Non-operating	5 ~ 95 %
Linear Shock (1/2 sine pulse)	
Operating, 2ms	63 G
Non-operating, 2ms	350 G
Altitude (relative to sea level)	
Operating	- 300 to 3,000 m
Non-operating	-300 to 12,000 m

POWER REQUIREMENTS

Voltage	+5V±5%,	+12V±10%
Spin Up Current (12V)		2.0 A
Seek ^{†4}		7.15 W
Read/Write		6.35 W
Idle(typical)		5.60 W
Standby ^{†5}		1.32 W
Sleep ^{†5}		1.32 W

PHYSICAL DIMENSION

Height(max.)	25.4 mm
Width	101.6 mm
Length(max.)	146.1 mm
Weight(avg.)	462.7 g

Specifications are subject to change without notice.

^{†1} 1MB=1,000,000 Bytes 1GB=1,000,000,000 Bytes.

Accessible capacity may vary depending on operating environment and formatting

^{†2} 7,200 RPM class. Actual speed can be different a little.

^{†3} Averaged value with a high performance cover.

^{†4} Random seek with 30% duty cycle.

^{†5} Power consumption with/without slumber mode.

^{†6} A small portion of the 8MB buffer memory is reserved for firmware use

