

# V120CE Series



CAPACITY <sup>†1</sup>	200GB	250GB
MODEL	HA200JC	HA250JC

## FEATURES

- 100GB/125GB formatted capacity per disk
- Ultra ATA-100 interface
- ATA S.M.A.R.T. compliant
- ATA host protected area feature set
- ATA Automatic Acoustic Management feature set
- ATA 48-bit address feature set
- NoiseGuard™ technology
- SilentSeek™ technology
- Fluid Dynamic Bearing spindle motor technology
- Thermal monitoring system
- ATA security mode Feature Set
- Lock'On Drive™ (Optional AV security feature) support
- Enhanced Auto Reassign
- Low spin up current technology

## DRIVE CONFIGURATION

Interface	UDMA100
Buffer DRAM Size	2 MB
Bytes per Sector	512

## PERFORMANCE SPECIFICATIONS

Read Seek Time (typ.) <sup>†2</sup>	
Track to Track	0.8 ms
Average	12 ms
Full Stroke	23 ms
Average Latency	5.21 ms
Rotational Speed <sup>†3</sup>	5,760 rpm
Data Transfer Rate	
Media to/from Buffer (max.)	813 Mbits/sec
Buffer to/from Host (max.)	100 Mbytes/sec
Drive Ready Time (typ.)	7 sec

## RELIABILITY SPECIFICATIONS

Non-recoverable Read Error	1 sector in 10 <sup>14</sup> bits
MTBF	600,000 POH
Start/Stop Cycles (Ambient)	50,000
Component Design Life	5 years

## ACOUSTICS (AVERAGE SOUND POWER)

Idle	2.40 Bel
Random Read/Write(Fast)	2.65 Bel
Random Read/Write(Quiet)	2.60 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
Vibration (swept sine, 0.25 octave per minute)	
Operating	
5 ~ 21 Hz	0.034" (double amplitude)
21 ~ 300 Hz	1.5 Go-p
Non-operating	
5 ~ 21 Hz	0.195" (double amplitude)
21 ~ 500 Hz	8 Go-p
Altitude (relative to sea level)	
Operating	-1,000 to 10,000 feet
Non-operating	-1,000 to 40,000 feet

## POWER REQUIREMENTS

Voltage	+5V±5%, +12V±10%
Spin Up Current (max.)	600 / 1800 mA
Seek <sup>†4</sup> (typ.)	7.0 W
Read/Write On-Track (typ.)	6.5 W
Normal (typ.)	6.0 W
Idle (typ.)	6.0 W
Standby (typ.)	0.5 W
Sleep (typ.)	0.4 W

## PHYSICAL DIMENSION

Height	1 in
Width	4 in
Depth	5.75 in
Weight	1.44 lb

*Specifications are subject to change without notice.*

<sup>†1</sup> 1MB=1,000,000 Bytes. 1GB=1,000,000,000 Bytes

<sup>†2</sup> Seek time under quiet mode(default).

<sup>†3</sup> 5,400 rpm class. Actual speed can be different a little.

<sup>†4</sup> Random seek with 30% duty cycle under the quiet mode.

