

SpinPoint™

V

**30** Series

20.0/30.0/40.0/60.0GB



## SAMSUNG HARD DISK DRIVE

- 3.5-inch High Performance Hard Drives
- 30.0GB Formatted Capacity Per Disk
- 5,400rpm Spindle Speed
- Ultra DMA/100 Compatible
- S.M.A.R.T. Compliant
- NoiseGuard™
- ImpactGuard™

SAMSUNG

# V30

## Series

- 3.5-inch High Performance Hard Drives
- 30.0GB Formatted Capacity Per Disk
- 5,400rpm Spindle Speed
- Ultra DMA/100 Compatible
- High Speed Digital Signal Processor Based Architecture
- S.M.A.R.T. Compliant
- Support Security Mode feature set
- Support Host Automatic Acoustic Management(AAM)
- NoiseGuard™- Acoustic Noise Suppression Technology
- ImpacGuard™

Model	SV2002H	SV3002H	SV4003H	SV6004H
Capacity	20.0GB	30.0GB	40.0GB	60.0GB
Heads	2	2	3	4
Disks	1	1	2	2



### Drive Configuration

Interface	Ultra DMA/100
Spindle Speed(RPM)	5,400±0.1%
Buffer Size	512KB

### Performance Specifications

Read Seek Time (typical, read)	
Track to Track	0.8 ms
Average	8.9 ms
Full Stroke	16.5ms
Average Latency	5.56ms
Data Transfer Rate	
Media to/from Buffer(max.)	402 Mbits/s
Buffer to/from Host (max.)	100 Mbytes/s

### Reliability Specifications

Non-recoverable Read Error	1 in 10 <sup>14</sup> bits
MTBF (POH)	500,000 hours
Start/Stop Cycles	50,000
Component Design Life	5 years

### Environmental Specifications

Temperature	
Operating	5 ~ 55°C
Non-operating	-40 ~ 70°C
Thermal Gradient (max.)	20°C/hr
Humidity (non-condensing)	
Operating	5 ~ 85 %
Non-operating	5 ~ 95 %
Altitude (relative to sea level)	
Operating	-650 to 10,000 feet
Non-operating	-1,000 to 40,000 feet

### Shock and Vibration

Linear Shock (1/2 sine pulse, 2 ms duration)	
Operating	63 G
Non-operating	300 G
Vibration (swept sine)	
Operating (1 octave per minute)	
5 ~ 21 Hz	0.034" (double amplitude)
22 ~ 300 Hz	1.5 Gp-p
Non-operating(1 octave per minute)	
5 ~ 21 Hz	0.195" (double amplitude)
22 ~ 500 Hz	8 Gp-p

### Power Consumption (typical)

Voltage	5V ± 5% / 12V ± 10%
Power Up Current(max.)	400 / 2000mA
Read/Write	3.5W
Seek	4.3W
Idle	3.3 W
Standby	1.0 W
Sleep	1.0 W

### Acoustic Noise

Sound Power (average)	
Idle	3.0 bels
Random Read/Write	3.2 bels

### Physical Dimension

Height	1 inch
Width	4 inches
Depth	5.75 inches
Weight	1.4 pounds

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### Contact

Website: [www.samsunghdd.com](http://www.samsunghdd.com) & [www.samsunghdd.co.kr](http://www.samsunghdd.co.kr)

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Rev.B 8/2001