

Data Sheet

Barracuda® Green

Green power that won't slow you down

2TB, 1.5TB and 1TB • SATA 6Gb/s and SATA 3Gb/s

Key Advantages

- A unique 5900-RPM platform delivers the fastest performance of any eco friendly drive available.
- Seagate SmartAlign™ technology provides the benefits of the new Advanced Format 4K sector standard without the hassle—no utilities, no extra steps.
- Plenty of capacity for storage-hungry applications
- The SATA 6Gb/s interface and 64MB cache maximize performance, especially in cache-intensive applications.
- Low power consumption combined with leadership in the use of materials that conform to environmental compliance programs means you don't have to sacrifice environmental stewardship for performance.
- Cool, quiet operation

Best-Fit Applications

- High-capacity desktop storage
- Direct Attached Storage devices—USB/FireWire/eSATA
- Network Attached Storage devices and Windows storage servers
- Eco friendly PCs



Barracuda Green Drives Save Time

The Seagate® Barracuda Green drive saves you time with a combination of fast performance and no-hassle hard drive integration.

- Delivering sustained data throughput up to 144MB/s, the Barracuda Green drive sets a new standard for performance in the eco-drive category.
- Seagate SmartAlign technology delivers a new level of simplicity for Advanced Format 4K drives. While other Advanced Format drives require the use of additional software utilities during integration, the Barracuda Green drive with Seagate SmartAlign technology requires no extra time or steps.

The Barracuda Green drive delivers on the product promise—Green power that won't slow you down!

www.seagate.com

Specification	2TB ¹	1.5TB ¹	1TB ¹
Model Number	ST2000DL003	ST1500DL003	ST1000DL002
Interface Options	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 3Gb/s NCQ
Performance			
Spindle Speed (RPM)	5900	5900	5900
Cache, Multisegmented (MB)	64	64	32
SATA Transfer Rates Supported (Gb/s)	6.0/3.0/1.5	6.0/3.0/1.5	3.0/1.5
Average Latency (ms)	4.16	4.16	4.16
Average Seek, Typical Read (ms)	12	12	12
Average Seek, Typical Write (ms)	13	13	13
Power On to Ready (sec)	<17	<17	<17
Sustained Data Rate OD (MB/s)	144	144	144
Configuration/Organization			
Bytes per Sector	4096	4096	4096
Voltage			
Voltage Tolerance, Including Noise (5V)	+10%/–7.5%	+10%/–7.5%	+10%/–7.5%
Voltage Tolerance, Including Noise (12V)	+10%/–7.5%	+10%/–7.5%	+10%/–7.5%
Reliability/Data Integrity			
Load/Unload Cycles (25°C, 50% Humidity)	300,000	300,000	300,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14
Annualized Failure Rate (AFR)	0.34%	0.34%	0.34%
Power Management			
Operating Mode, Typical (W)	5.8	5.8	5.8
Idle Mode (W)	4.5	4.5	4.5
Standby Mode (W)	0.5	0.5	0.5
Sleep Mode (W)	0.5	0.5	0.5
Startup Current +12V Peak (A±10%)	2.0	2.0	2.0
Environmental			
Temperature			
Operating (°C)	0 to 60	0 to 60	0 to 60
Nonoperating (°C)	–40 to 70	–40 to 70	–40 to 70
Shock			
Operating, 2ms (Gs)	80	80	80
Nonoperating, 2ms (Gs)	300	300	300
Physical			
Height (mm/in)	26.1/1.028	26.1/1.028	26.1/1.028
Width (mm/in)	101.6/4.0	101.6/4.0	101.6/4.0
Depth (mm/in)	147.00/5.78	147.00/5.78	147.00/5.78
Weight (g/lb)	635/1.39	635/1.39	635/1.39

¹ One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.