



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



Think  
Green™



# Barracuda® Green

Green power that won't slow you down



## 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](http://www.seagate.com)

Specification	2TB <sup>1</sup>	1.5TB <sup>1</sup>	1TB <sup>1</sup>
Model Number	ST2000DL003	ST1500DL003	ST1000DL002
Interface Options	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 3Gb/s NCQ
<b>Performance</b>			
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
<b>Configuration/Organization</b>			
Bytes per Sector	4096	4096	4096
<b>Voltage</b>			
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%
<b>Reliability/Data Integrity</b>			
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%
<b>Power Management</b>			
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
<b>Environmental</b>			
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
<b>Physical</b>			
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

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

AMERICAS Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, 408-658-1000  
ASIA/PACIFIC Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888  
EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SAS 16-18 rue du Dôme, 92100 Boulogne-Billancourt, France, 33 1-4186 10 00

© 2011 Seagate Technology LLC. All rights reserved. Printed in USA. Seagate, Seagate Technology and the Wave logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Barracuda, Seagate SmartAlign and the Think Green logo are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors. Seagate reserves the right to change, without notice, product offerings or specifications. DS1726.2-1105GB, May 2011