

Data Sheet

# Barracuda® Green

Green power that will not slow you down

## 2 TB and 1.5 TB • SATA 6 Gb/s

### Key Advantages

- A unique 5,900 RPM platform that 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 6 Gb/s interface and 64 MB cache maximise performance, especially in cache-intensive applications
- Low power consumption combined with leadership in the use of recycled materials means you do not have to sacrifice environmental management 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



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## 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 a sustained data throughput of up to 144 MB/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 fulfils the product promise — Green power that will not slow you down!

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

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Specification	2 TB <sup>1</sup>	1.5 TB <sup>1</sup>
Model Number	ST2000DL003	ST1500DL003
Interface Options	SATA 6 Gb/s NCQ	SATA 6 Gb/s NCQ
<b>Performance</b>		
Spindle Speed (RPM)	5,900	5,900
Cache, Multi-segmented (MB)	64	64
SATA Transfer Rates Supported (Gb/s)	6.0	6.0
Average Latency (ms)	4.16	4.16
Average Seek, Typical Read (ms)	12	12
Average Seek, Typical Write (ms)	13	13
Power On to Ready (sec)	<10	<10
Sustained Data Rate OD (MB/s)	144	144
<b>Configuration/Organisation</b>		
Heads/Discs	6/3	6/3
Bytes per Sector	4,096	4,096
<b>Voltage</b>		
Voltage Tolerance, Including Noise (5V)	+10%/-7.5%	+10%/-7.5%
Voltage Tolerance, Including Noise (12V)	+10%/-7.5%	+10%/-7.5%
<b>Reliability/Data Integrity</b>		
Load/Unload Cycles (25°C, 50% Humidity)	300,000	300,000
Non-recoverable Read Errors per Bits Read, Max	1 per 10 <sup>14</sup>	1 per 10 <sup>14</sup>
Annualised Failure Rate (AFR)	0.34%	0.34%
Power-on Hours	8,760	8,760
Limited Warranty (years)	3	3
<b>Power Management</b>		
Operating Mode, Typical (W)	5.8	7.15
Idle Mode (W)	4.5	5.0
Standby Mode (W)	0.5	0.93
Sleep Mode (W)	0.5	0.93
Start-up Current +12V Peak (A, ±10%)	2.0	2.0
<b>Environmental</b>		
Temperature		
Operating (°C)	0 to 60	0 to 60
Non-operating (°C)	-40 to 70	-40 to 70
Shock		
Operating, 2ms (Gs)	80	80
Non-operating, 2ms (Gs)	300	300
<b>Physical</b>		
Height (mm/in)	26.1/1.028	26.1/1.028
Width (mm/in)	101.6/4.0	101.6/4.0
Depth (mm/in)	146.00/5.75	146.00/5.75
Weight (g/lb)	622/1.371	622/1.371

<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.

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