Specifications	4 TB	3 TB	2 TB	2 TB	1 TB	500 GB	250 GB
Model number	WD4000FYYZ	WD3000FYYZ	WD200MFYYZ	WD2000FYYZ	WD1003FBYZ	WD5003ABYZ	WD2503ABYZ
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity[1]	4 TB	3 TB	2 TB	2 TB	1 TB	500 GB	251 GB
User sectors per drive	7,814,037,168	5,860,533,168	3,907,029,168	3,907,029,168	1,953,525,168	976,773,168	490,350,672
Native command queuing	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
RoHS compliant[2]	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance							
Data transfer rate (max) Buffer Host (Buffer to disk, sustained)	6 Gb/s 171 MB/s	6 Gb/s 168 MB/s	6 Gb/s 164 MB/s	6 Gb/s 164 MB/s	6 Gb/s 128 MB/s	6 Gb/s 128 MB/s	6 Gb/s 128 MB/s
Cache (MB)	64	64	64	64	64	64	64
Rotational speed (RPM)	7200	7200	7200	7200	7200	7200	7200
Reliability/Data Integrity							
Load/unload cycles[3]	600,000	600,000	600,000	600,000	600,000	600,000	600,000
Non-recoverable read errors per bits read	<10 in 10^{16}	<10 in 10^{16}	<10 in 10^{16}	<10 in 10^{16}	<1 in 10^{15}	<1 in 10^{15}	<1 in 10^{15}
MTBF (hours)[4]	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
AFR (%)[4]	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Limited warranty (years)[5]	5	5	5	5	5	5	5
Power Management							
Average power requirements (W) Sequential read Sequential write Random read/write Idle	10.2 9.7 10.9 8.6	10.2 9.7 10.9 8.6	10.2 9.7 10.9 8.6	8.1 7.7 9 6.4	8.2 8.3 8.6 5.9	6.5 6.4 6.3 4.4	6.5 6.4 6.3 4.4
Environmental Specifications[6]							
Temperature (°C) Operating Non-operating	5 to 55 -40 to 70	5 to 55 -40 to 70	5 to 55 -40 to 70	5 to 55 -40 to 70	5 to 55 -40 to 70	5 to 55 -40 to 70	5 to 55 -40 to 70
Shock (G) Operating (2 ms, read/write) Operating (2 ms, read) Non-operating (2 ms)	30 65 300	30 65 300	30 65 300	30 65 300	30 65 300	30 65 350	30 65 350
Acoustics (dBA)[7] Idle Seek (average)	31 34	31 34	31 34	31 34	28 33	27 30	27 30
Physical Dimensions							
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ±.01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb./kg, ±10%)	1.66/0.75	1.66/0.75	1.66/0.75	1.66/0.75	1.49/0.68	0.99/0.45	0.99/0.45

[1] As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabit per second (Gb/s) = one billion bits per second. Effective maximum SATA 6 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

[2] WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

[3] Controlled unload at ambient condition.

[4] Product MTBF and AFR specifications are based upon a 40°C base casting and system workloads of up to 550 TB/year (workload is defined as the amount of user data transferred to or from the hard drive).

[5] The term of the limited warranty may vary by region. Visit http://support.wd.com/warranty for details.

[6] No non-recoverable errors during operating tests or after non-operating tests.

[7] Sound power level.

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