	N300					
Capacity *1	10 TB	8 TB	8 TB	6 TB	6 TB	4 TB
Drive model number	HDWG11A	HDWG180	HDWN180	HDWG160	HDWN160	HDWQ140
Basic Specifications						
Interface *3	SATA 6.0 Gbit/s					
Form Factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Sector size	512e	512e	512e	512e	512e	512n
Features						
Drive Bays Supported *2	8	8	8	8	8	8
24 x 7 Operation (Workloads [TB/year] *4	180	180	180	180	180	180
Performances						
Rotation Speed [rpm]	7,200	7,200	7,200	7,200	7,200	7,200
Max Data Transfer Speed [MB/s Typ.](Sustained) *3	248	241	241	241	241	204
Buffer Size [MB]	256	256	128	256	128	128
Reliability						
MTTF [hours] *5	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Unrecoverable Error Rate	1 per 10 ¹⁴					
Load/Unload cycles	300,000	300,000	300,000	300,000	300,000	300,000
Power Requirements						
Supply Voltage	5 V DC +10 / -5 %	5 V DC +10 / -5 %	5 V DC ±5 %	5 V DC +10 / -5 %	5 V DC ±5 %	5 V DC ±5 %
	12 V DC ±10 %					
Power Consumption (Spin up (+12V DC)) [A] *6	1.44	1.43	1.83	1.44	1.88	1.84
Power Consumption (Operating) [W] *7	9.92	8.61	9.20	7.88	10.1	9.6
Power Consumption (Active Idle) [W]	7.22	6.33	6.20	5.59	6.7	5.2
Dimensions						
Height [mm Max.]	26.1	26.1	26.1	26.1	26.1	26.1
Length [mm Max.]	147.0	147.0	147.0	147.0	147.0	147.0
Width [mm Max.]	101.85	101.85	101.85	101.85	101.85	101.85
Weight [g Max.]	770	770	770	770	770	720
Bottom holes type *8	TYPE1	TYPE1	TYPE1	TYPE1	TYPE1	TYPE2
Environmental Requirements						
Temperature (Operating) [°C]	0 to 65 (surface)					
Temperature (Non-operating) [°C]	-40 to 70					
Vibration (Operating)	7.35 m/s ² { 0.75 G } (5 to 300 Hz)	7.35 m/s2 { 0.75 G } (5 to 300 Hz)	7.35 m/s ² { 0.75 G } (5 to 300 Hz)	7.35 m/s ² { 0.75 G } (5 to 300 Hz)	7.35 m/s ² { 0.75 G } (5 to 300 Hz)	7.35 m/s ² { 0.75 G } (5 to 300 Hz)
	2.45 m/s ² { 0.25 G } (300 to 500 Hz)	2.45 m/s ² { 0.25 G } (300 to 500 Hz)	2.45 m/s ² { 0.25 G } (300 to 500 Hz)	2.45 m/s ² { 0.25 G } (300 to 500 Hz)	2.45 m/s ² { 0.25 G } (300 to 500 Hz)	2.45 m/s ² { 0.25 G } (300 to 500 Hz)
Vibration (Non-operating)	29.4 m/s ² { 3.0 G } (5 to 500 Hz)	29.4 m/s ² { 3.0 G } (5 to 500 Hz)	49 m/s ² { 5 G } (5 to 500 Hz)	29.4 m/s ² { 3.0 G } (5 to 500 Hz)	49 m/s ² { 5 G } (5 to 500 Hz)	49 m/s ² { 5 G } (5 to 500 Hz)
Shock (Operating)	686 m/s ² { 70 G } (2 ms duration)	686 m/s ² { 70 G } (2 ms duration)	686 m/s ² { 70 G } (2 ms duration)	686 m/s ² { 70 G } (2 ms duration)	686 m/s ² { 70 G } (2 ms duration)	686 m/s ² { 70 G } (2 ms duration)
Shock (Non-operating)	2,450 m/s ² { 250 G } (2 ms duration)	2,450 m/s ² { 250 G } (2 ms duration)	2,450 m/s ² { 250 G } (2 ms duration)	2,450 m/s ² { 250 G } (2 ms duration)	2,450 m/s ² { 250 G } (2 ms duration)	2,450 m/s ² { 250 G } (2 ms duration)
Acoustics(Sound Power) Idle mode [dB]	34	34	33	34	33	30

^{*1:} One Gigabyte (1GB) means 10⁹ = 1,000,000,000 bytes and One Terabyte (1TB) means 10¹² = 1,000,000,000,000 bytes using powers of 10. A computer operating system, however, reports storage capacity using powers of 2 for the de nition of 1GB = 2³⁰ = 1,073,741,824 bytes and 1TB = 2⁴⁰ = 1,099,511,627,776 bytes, and therefore shows less storage capacity. Available storage capacity (including examples of various media les) will vary based on le size, formatting, settings, software and operating system and other factors.

- *2: As for "Drive Bays Supported", please contact your Solutions Provider because the compatibility with the host device will vary based on the system.
- *3: Read and write speed may vary depending on the host device, read and write conditions, and file size.
- *4: Workload is defined as the amount of data written, read or verified by commands from host system.
- *5: MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF.
- *6: Not including glitch less than 100 μs.
- *7: Operating watt is measured using 80% random read.write and 20% performance idle.
- *8: Location of bottom mounting hole is different from product. For more information, please see the following page. https://toshiba.semicon-storage.com/us/design-support/fag/storage-holes.html