Ultrastar hard drives feature up to 10 times the workload rating of desktop drives and employ advanced technologies for enterprise-class reliability, power efficiency and performance. Designed from the ground up to be an ultra-robust storage device, Ultrastar drives are the perfect solution for your business.

High Workload Rating
Delivering dependable performance to any storage environment, Ultrastar hard drives are designed with a workload rating up to 550TB per year*, among the highest of any 3.5-inch hard drive.

Enterprise-class Storage to Rely On
Ultrastar is our top-end drive for data centers. With up to 2.5 million hours MTBF, Ultrastar hard drives deliver reliability and durability, are built for yearly operation (24x7x365) within the most demanding storage environments, and are backed with a 5-year limited warranty.

HelioSeal® Technology
Featured in over 48 million Western Digital hard drives shipped**, HelioSeal technology allows for higher capacities and lower power on large storage arrays. And now on its 5th generation design, HelioSeal technology is field-tested and proven to deliver high capacity, reliability, and power efficiency you can trust. HelioSeal is a key technology on 10TB capacities and above.

Vibration Protection
Enhanced Rotational Vibration Safeguard (RVS) technology uses sophisticated electronics to monitor the drive and correct linear and rotational vibrations in real time for improved performance versus traditional desktop drives in high-vibration environments.

Dynamic Fly-height Technology
Each read-write head's fly height is adjusted in real time to ensure consistent performance for reduced errors and optimized reliability.

Dual-stage Actuator Technology
Ultrastar drives feature a dual-stage actuator head positioning system for a high degree of accuracy. The primary stage provides course displacement while the secondary stage uses piezoelectric motion to fine tune the head positioning to a higher degree of precision.

Compatibility testing
All Ultrastar hard drives are extensively tested across a variety of popular OEM storage systems, SATA controllers, and host bus adapters to ensure ease of integration for a plug and play solution.

7200RPM-Class
This family of 7200RPM-class hard drives delivers the fastest performance with the highest workload rating of any drive in Western Digital’s hard drive lineup. Ensure you have the most capable hard drive regardless of the application with Ultrastar hard drives.

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*Workload Rate is defined as the amount of user data transferred to or from the hard drive. Workload Rate is annualized (TB transferred x (8760 / recorded power-on hours). Workload Rate will vary depending on your hardware and software components and configurations.

** As of July 2019

*** As used for storage capacity, 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.
# Ultrastar SATA Series

## Specifications

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
<th>Capacity</th>
<th>Interface</th>
<th>Form Factor</th>
<th>Cache (MB)</th>
<th>Performance</th>
<th>Reliability</th>
<th>Power Management</th>
<th>Environmental Specifications</th>
<th>Physical Dimensions</th>
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<tbody>
<tr>
<td>Ultrastar DC family</td>
<td>HC530</td>
<td>14TB</td>
<td>SATA 6 Gb/s</td>
<td>3.5-inch</td>
<td>512</td>
<td>267 MB/s</td>
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<td>HC520</td>
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<td>255 MB/s</td>
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<td>512</td>
<td>255 MB/s</td>
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<td>Yes</td>
<td>3°C to 60°C (-40°C to 70°C)</td>
<td>1,028.26/26.1</td>
</tr>
</tbody>
</table>

**Notes:**
- ¹ FORMAT: 512e: Advanced Format drive with 512-byte logical and 4K (4096-byte) physical sectors; 512n: Native 512-byte logical and physical sectors.
- ² Western Digital 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 Interface transfer rate: MB/s is 1,000,000 bytes per second. Effective maximum SATA 6 Gb/s transfer rate calculated according to the Serial ATA specification published by the Serial ATA organization as of the date of this specification sheet. Visit www.sata-io.org for details.
- ⁴ Western Digital 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.
- ⁵ Form factor: 3.5-inch and 2.5-inch drives use 512-byte logical and 4K (4096-byte) physical sectors; 512n: Native 512-byte logical and physical sectors.
- ⁶ Cache buffer: Portion of buffer capacity used for drive firmware.
- ⁷ MTBF and AFR: Specifications are based on a sample population and are estimated by statistical measurements and acceleration algorithms under typical operating conditions for this drive model. MTBF and AFR ratings do not predict an individual drive’s reliability and do not constitute a warranty.
- ⁸ Operational Power: 8K Queue Depth = 1 @ 40 IOPS; Idle Power: Based on use of Idle_A.

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