

**WD Ultrastar DC HC550 WUH721818ALE6L4 - hard drive - 18 TB - SATA 6Gb/s(0F38459)**

**WD Ultrastar DC HC550 WUH721818ALE6L4 - Hard drive - 18 TB - internal - 3.5" - SATA 6Gb/s - 7200 rpm - buffer: 512 MB**



The breadth and depth of Big Data is driving the universal need for higher capacities across a broad spectrum of applications and workloads. Laying the foundation for a worry-free data center, Western Digital delivers the capacity to conquer the data explosion with the Ultrastar DC HC500 series of hard disk drives (HDDs). The DC HC500 series is designed for public and private cloud environments where storage density and cost-efficient infrastructure is critical.

The 18TB Ultrastar DC HC550 HDDs are the first commercial implementation of Energy-Assisted Magnetic Recording technology and utilize the industry's first Triple Stage Actuator. These technologies, integrated with HelioSeal on a 9-disk platform, deliver the highest areal density and unmatched Total Cost of Ownership for customer and market needs.

**Key Selling Points**

- Industry's first Energy-Assisted Magnetic Recording technology
- Industry's first Triple Stage Actuator
- Leading HelioSeal technology
- Reliable, field-proven design across five generations
- HelioSeal design delivers power efficiency (Watts/TB)
- 2.5M hours MTBF rating

**Product Features**

- 18TB, enabled by EAMR**  
Provides 29% more capacity than 14TB helium-filled drives.
- Ultra-low Watts per Terabyte (W/TB)**  
21% lower idle W/TB than 14TB Ultrastar helium-filled drives.
- Triple Stage Actuator and Two-Dimensional Magnetic Recording (TDMR) technology**  
More accurate head positioning, especially in multi-drive environments, for better performance and data integrity.
- Rotational Vibration Safeguard (RVS)**  
Maintains drive performance in high rotational vibration environments and multi-drive systems.
- Media Cache Plus architecture**  
Better random write performance.
- SATA 6Gb/s & SAS 12Gb/s**  
Provides compatibility with high-performance data centers.
- 512MB cache buffer**  
Improves response time and data management.
- Dual Safe, RSA-signed firmware**  
Retains previous firmware version for safe firmware updates, verified with an RSA signature.
- 2.5M hours MTBF and 0.35% AFR**  
Unsurpassed reliability rating for Capacity Enterprise HDD for fewer failures/less service needs.

**Main Specifications**

Product Description	WD Ultrastar DC HC550 WUH721818ALE6L4 - hard drive - 18 TB - SATA 6Gb/s
Type	Hard drive - internal
Capacity	18 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Data Transfer Rate	600 MBps
Buffer Size	512 MB

Spindle Speed	7200 rpm
Features	Energy-Assisted Magnetic Recording (EAMR), Media Cache Plus, Rotational Vibration Safeguard (RVS), Triple State Actuator (TSA), Two-Dimensional Magnetic Recording (TDMR), Conventional magnetic recording (CMR), HelioSeal
Dimensions (WxDxH)	101.6 mm x 147 mm x 26.1 mm
Weight	690 g
Manufacturer Warranty	5-year warranty

Extended Specification

General

Device Type	Hard drive - internal
Capacity	18 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Buffer Size	512 MB
Features	Energy-Assisted Magnetic Recording (EAMR), Media Cache Plus, Rotational Vibration Safeguard (RVS), Triple State Actuator (TSA), Two-Dimensional Magnetic Recording (TDMR), Conventional magnetic recording (CMR), HelioSeal
Width	101.6 mm
Depth	147 mm
Height	26.1 mm
Weight	690 g

Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Power

Power Consumption	6.5 Watt (typical)   5.6 Watt (idle)
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Environmental Parameters

Min Operating Temperature	5 °C
Max Operating Temperature	60 °C
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C
Shock Tolerance (operating)	50 g @ 2 ms half-sine wave
Shock Tolerance (non-operating)	250 g @ 2 ms half-sine wave
Vibration Tolerance (operating)	0.67 g @ 5-500 Hz
Vibration Tolerance (non-operating)	1.04 g @ 2-200 Hz

Performance

Drive Transfer Rate	600 MBps (external)
Internal Data Rate	262 MBps
Average Latency	4.16 ms
Spindle Speed	7200 rpm

Reliability

MTBF	2,500,000 hours
24x7 Operation	Yes
Non-Recoverable Errors	1 per 10^15

Load / Unload Cycles600,000

Expansion & Connectivity

Interfaces	1 x SATA 6 Gb/s
Compatible Bay	3.5"

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet