

# WD Caviar Green WD5000AADS - hard drive - 500 GB - SATA-300

**Description:** This Western Digital Caviar Green WD5000AADS is a 500GB, standard hard disk drive. Compared to other standard hard drives on the market, it is very inexpensive at around \$60. Compared to a typical hard drive, its maximum internal data transfer rate of 108 MBps is very fast. Its burst transfer rate is 300 MBps.

**Pros:** With a Serial ATA-300 controller interface, this drive sports one of the most advanced technologies for high-speed data transfer.

**Cons:** None noted, given available product data.

**Suitability:** A standard hard drive, suited for general computing.

**Value:** In view of its very inexpensive price, this hard drive has great features for the money.

## General

- **Device Type** Hard drive - Internal hard drive
- **Width** 4 in
- **Depth** 5.8 in
- **Height** 1 in
- **Weight** 1.3 lbs

## Hard Drive

- **Form Factor** [3.5" x 1/3H](#)
- **Capacity** [500 GB](#)
- **Interface Type** Serial ATA-300
- **Buffer Size** 32 MB
- **Features** StableTrac,  
IntelliSeek,  
IntelliPower,  
GreenPower technology,  
NoTouch ramp load technology,  
Perpendicular Magnetic Recording (PMR)
- **Compliant Standards** S.M.A.R.T.

## Performance

- **Drive Transfer Rate** [300 MBps](#)
- **Internal Data Rate** 108 MBps

## Reliability

- **Storage Hard Drive / Non-Recoverable Errors** 1 per  $10^{15}$
- **Start / Stop Cycles** 300,000

## Storage Controller

- **Type** None

## Expansion / Connectivity

- **Interfaces** 1 x Serial ATA-300 - 7 pin Serial ATA
- **Compatible Bays** 1 x Internal - 3.5" x 1/3H
- **Compatible Slots** x None

## Miscellaneous

- **Compliant Standards** RoHS

## Manufacturer Warranty

- **Service & Support** 3 years warranty
- **Service & Support Details** Limited warranty - 3 years

## Environmental Parameters

- **Min Operating Temperature** 41  $^{\circ}$ F
- **Max Operating Temperature** 131  $^{\circ}$ F
- **Shock Tolerance** 300 g @ 1ms (non-operating)
- **Vibration Tolerance** 0.75 g @ 20-300 Hz (operating) / 4 g @ 20-500 Hz (non-operating)