



Seagate Desktop HDD Barracuda LP 5900.12 500GB 3.5" Serial ATA



Brand : Seagate

Product family: Desktop HDD

Product code: ST3500412AS

Product name : Barracuda LP
5900.12 500GB

Barracuda LP 5900.12 500GB - 5,900 RPM spindle speed, Quiet operation

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- 5,900 RPM spindle speed.
- High instantaneous (burst) data-transfer rates (up to 300 Mbytes per second).
- Perpendicular recording, Tunneling Magneto-resistive (TMR) recording heads and EPRML technology, for increased areal density.
- State-of-the-art cache and on-the-fly error-correction algorithms.
- Native Command Queuing with command ordering to increase performance in demanding applications.
- Full-track multiple-sector transfer capability without local processor intervention.
- Quiet operation.
- Compliant with RoHS requirements in China and Europe.
- SeaTools diagnostic software performs a drive self-test that eliminates unnecessary drive returns.
- Support for S.M.A.R.T. drive monitoring and reporting.
- Supports latching SATA cables and connectors.

Seagate Desktop HDD Barracuda LP 5900.12 500GB. HDD size: 3.5", HDD capacity: 500 GB, HDD speed: 5900 RPM

Features		Operational conditions	
HDD size *	3.5"	Storage relative humidity (H-H)	5 - 95%
HDD capacity *	500 GB	Operating vibration	350 G
HDD speed *	5900 RPM	Non-operating vibration	350 G
Interface *	Serial ATA	Operating altitude	60.96 - 3048 m
Storage drive buffer size	16 MB	Non-operating altitude	60.96 - 12192 m
HDD number of heads	2	Operating shock	70 G
HDD number of cylinders	16383	Non-operating shock	300 G
Read seek time	16 ms	Weight & dimensions	
Write seek time	16 ms	Width	101.8 mm
Track to track seek time	1 ms	Height	20.2 mm
Average latency	5.1 ms	Depth	147 mm
Bytes per sector	512	Weight	415 g
Start/stop cycles	50000	Other features	
Power		Sustained data rate	95 MB/s
Operating voltage	5 / 12 V	HDD transfer rate	1285 Mbit/s
Operational conditions		Internal	✓
Operating temperature (T-T)	0 - 60 °C	Drive device, transfer rate	300 MB/s
Storage temperature (T-T)	-40 - 70 °C	Recording density	1417 kbit/inch
Operating relative humidity (H-H)	5 - 90%	Track density	236
		Disks included quantity	1 pc(s)

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