



200 GByte, 2.5", 5,400 rpm Disk Drive Specification - 1.5Gb SATA-1 Interface

Disk Drive Installation

For information on how to install your disk drive, refer to your system or drive enclosure documentation.

See "Accessing Sun Documentation" on the back page if you need to order any documentation.

The Disk Drive Bracket Assembly consists of the disk drive assembled within the bracket assembly.

The Disk Drive Bracket Assembly should not be disassembled for any reason by the user.

Power Requirements

Activity	+5 VDC ($\pm 5\%$)	12 VDC ($\pm 5\%$)
Motor start (Surge Current, 20sec)	1.0 A	0.0 A
Max I/O Conditions (Amp. rms)	0.42 A	0.0 A

Physical Characteristics (Drive only, excluding bracket)

Height (max)	Width (max)	Depth (max)	Weight
0.382 in	2.760 in	3.953 in	3.57 oz
9.7 mm	70.1 mm	100.4 mm	0.101 kg

Usage Information

Usage	Description
Shelf Life	Drive must be powered on at least once every six months
Useful Life	Minimum five years
Expected AFR (Annualized Failure Rate)	1.3% for normal, 24x7 operating conditions

Performance

Attribute	Value
Capacity, formatted	200,049,647,616 bytes minimum (512 bytes per sector)
Rotational latency	
Average	5.56 msec (5,400 RPM)
Seek times (read/write)	(Typical)
Single track seek	1.5 msec
Average seek	12 msec
Maximum seek	22 msec
Random 2KB Reads Per Sec	(Typical)
Queue=1, 100% Volume	60 IOPs
Queue=32, 100% Volume	90 IOPs
HDA data transfer rate (Typical)	
Sequential Read	25 MB/sec (at ID) to 55 MB/sec (at OD)
Interface data transfer rate	Single Port, Full Duplex
Maximum instantaneous	150 Mbytes per sec (1.5Gb mode)
Start/stop	
Power up to ready	30 sec typical
Spin down	30 sec typical

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