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# 1 TByte, 3.5", 7,200 rpm Disk Drive Specification

6Gb SAS-2 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 (±5%)	12 VDC (±5%)
Motor start (Surge Current, 20 sec)	0.67 A	2.08 A
Max I/O Conditions (Amp. rms)	1.1 A	0.62 A

## Physical Characteristics (Drive only, excluding bracket)

Height (max)	Width	Depth	Weight
1.03 in	4.00 in	5.755 in	1.57 lb
26.10 mm	101.60 mm	146.18 mm	0.71 kg

## Usage Information

Usage	Description
Shelf Life	Recommend drive to be powered on at least once every 6 months
Useful Life	Minimum 5 years
Expected AFR (Annualized Failure Rate)	0.73% for normal, 24x7 operating conditions
Normal Drive Temperatures	5 degC to 45 degC. Derating of AFR applies above 45 degC
Maximum Temperature	60 degC maximum sustained temperature Drive may be rendered unusable above 65 degC
Other Environmental Factors	Conforms to IEC Standards

## Performance

Attribute	Value
Capacity, formatted	1,000,204,886,016 bytes minimum (512 bytes per sector)
Rotational latency	
Average	4.16 msec (7,200 RPM)
Seek times (read/write)	(Typical)
Single track seek	0.65 msec
Average seek	8.9 msec
Maximum seek	17.1 msec
Random 2KB Reads Per Sec	(Typical)
Queue=1, 100% Volume	79 IOPs
Queue=32, 100% Volume	182 IOPs
HDA data transfer rate	(Typical)
Sustained Sequential Read	90 MB/sec (at ID) to 144 MB/sec (at OD)
Interface data transfer rate	6Gb/3Gb/1.5Gb per sec. auto negotiation Dual Port, Full Duplex
Start/stop	(Typical)
Power up to ready	30 sec
Spin down	30 sec

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