



# 400 GB, 3.5-inch, 10,000 rpm SAS Disk Drive Interface ( 3Gb-SAS )

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## **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.

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## Power Requirement

Activity	+5 VDC ( $\pm 5\%$ )	+12 VDC ( $\pm 7\%$ )
Motor start max	0.89 A	2.5 A
Typical Operating (Random IOs)	0.88 A	1.21 A

## Physical Characteristics (Drive only, excluding bracket)

Height	Width	Depth	Weight
1.028 in. max	4.01 in. max	5.787 in. max	1.85 lb max
26.1 mm max	101.85 mm max	147.0 mm max	0.839 kg max

## 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)	0.63% for normal, 24x7 operating conditions

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## Performance

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Attribute	Value
Capacity, formatted	400,000,000,000 bytes minimum (512 bytes per sector)
Rotational latency	
Average	2.98 msec
Seek times (read/write)	
Single track seek	0.45 msec
Average seek	3.9 msec / 4.2 msec
Maximum seek	7.9 msec
Random 2KB Reads Per Sec	( Typical )
Queue=1, 100% Volume	125 IOPs
Queue=32, 100% Volume	300 IOPs
HDA data transfer rate	
Disk to read buffer	725 MB/sec (at ID) to 1,211 MB/sec (at OD)
Interface data transfer rate	
Maximum instantaneous	300 Mbytes per sec (Dual Port)
Start/stop	
Power up to ready	30 sec typical
Spin down	30 sec maximum

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