

# 400 Gbyte, 2.5-inch, Solid State Drive

## Disk Drive Specification, 6Gb/s SATA-3 Interface

### Disk Drive Installation

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

See "[Related Documentation](#)" on the back page if you need to order any documentation.

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

### Power Requirements

Condition	+5 VDC (-5%, +10%)	+12 VDC (-5% +10%)
Startup Current Peak	1.0A	1.0A
Read/Write Peak	7.7W	7.6W
Read/Write Typical (rms)	600mW to 5.2W	800mW to 5.4W
Maximum Power (measured as the average power in a 1 ms interval)	7.7W	7.6W

### Physical Characteristics

Height (max)	Width	Depth	Weight
3.953125 in.	2.75 in.	0.28125 in. (max)	2.4692 oz
100.45 mm	69.85 +/-0.25 mm	70 +/-0.05 mm	73.6 +/-2 gm

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## Usage Information

Usage	Description
Useful Life	5 years
Expected AFR (Annualized Failure Rate)	0.44% for normal 24x7 operating conditions
Operating Temperatures	0 to 70 degrees Celsius (case)
Maximum Temperature (SMART trip)	70 degrees Celsius (Drive voids warranty above 70 degrees Celsius.)
Other Environmental Factors	Conforms to IEC standards

## Performance

Attribute	Value
Capacity, formatted	400,088,457,216 bytes (512 bytes per sector)
Random 4KB Read	Up to 60,000 IOPS
Random 4KB Write	Up to 43,600 IOPS
Sequential Read	480 MB/s
Sequential Write	440 MB/s
Interface data transfer rated	6Gb/3Gb/1.5Gb per second auto negotiation, dual port, full duplex
Power ON to Ready (no rebuild)	< 2 seconds
Power On to Ready (full rebuild)	15 seconds (worst case)
End-to-End	The detection happens through several techniques such as parity checks, Cyclic Redundancy Checks (CRC), and Logical Block Address (LBA) tag checks along the data path.

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## SSD Characteristics

Attribute	Value
NAND Geometry	25nm MLC w/HET
Number of NAND Channels	8
NAND Transfer Rate per Channel	83 MHz
Rated PE Cycles	30000
Over Provisioning	25.00%
Page Size	8,192 bytes
Erase Block Size	1,048,576 bytes

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## Related Documentation

Documentation for this product is available at:

<http://www.oracle.com/documentation>

## Feedback

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## Support and Accessibility

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Description	Links
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