1.6 Tbyte, 2.5-inch, Read Intensive Solid State Drive

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 "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	1.5A	3.5A
Read/Write Peak	1.5A	3.5A
Read/Write Typical (rms)	1.2A	0.5A
Maximum Power (measured as the average power in a 1 ms interval)	7.0W	12.0W

Physical Characteristics

Height	Width	Depth	Weight
0.591 in.	2.759 in.	3.955 in. (max)	8.8 oz
15 mm	70.10 mm	100.45 mm	0.250 gm

Usage Information

Usage	Description
Useful Life	3 years
Expected AFR (Annualized Failure Rate)	0.438% for normal 24x7 operating conditions
Operating Temperature	5 to 65 degrees Celsius (case)
Maximum Temperature (SMART trip)	85 degrees Celsius (Drive voids warranty above 85 degrees Celsius.)
Other Environmental Factors	Conforms to IEC standards

Performance

Attribute	Value
Capacity, formatted	1,600,321,314,816 bytes (512 bytes per sector)
Random 4KB Read	40,000 IOPS
Random 4KB Write	2,900 IOPS
Sequential Read	430 MB/s
Sequential Write	80 MB/s
Interface data transfer rated	6Gb/3Gb/1.5Gb per second auto negotiation, dual port, full duplex
Power ON to Ready (no rebuild)	< 15 seconds
Power On to Ready (full rebuild)	30-90 seconds
End-to-End	T10DIF Type 1 (no performance impact)

SSD Characteristics

Attribute	Value
NAND Geometry	24nm MLC, 128Gb/chip
Number of NAND Channels	12
NAND Transfer Rate per Channel	80 MB/s
Rated PE Cycles	8,000
Over Provisioning	20%
Page Size	31,744 bytes
Erase Block Size	4,063,232 bytes

Related Documentation

Documentation for this product is available at:

http://www.oracle.com/documentation

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