# 200 800 7680 GB SAS Solid State Drive Specification

This section provides the specification for 200, 800, 7680 GB SAS-3 SFF (Small Form Factor) Solid State Drives.

- 200GB MSCAC2DD6ORA200G Solid State Drive Specification - Write Intensive
- 800GB MSCAC2DD4ORA800G Solid State Drive Specification - General Purpose
- 7680GB MSCAC2DD2ORA7.6T Solid State Drive Specification - Read Intensive

The following tables list 200, 800, 7680 GB SAS-3 SFF SSD specifications (Samsung PM1653).

**Table 200 800 7680 GB SAS SSD Power Requirements**

| Condition | +5 VDC (-5%, +7%) | +12 VDC (-5%, +10%) |
|---|---|---|
| Max Current Rated | 1. 2 A | 1.5 A |
| Read/Write typical max (rms) | 0.8 A | 0.6 A |
| Maximum power | 4 W | 7.2 W |

**Note:**

Maximum power is measured as the average power in a 500 ms interval.

**Table 200 800 7680 GB SAS SSD Physical Characteristics**

| Attribute | Value |
|---|---|
| Height (max) | 15 mm |
| Width (max) | 70.10 mm |
| Depth (max) | 100.45 mm |
| Weight (max) | 0.16 kg |

**Table 200 800 7680 GB SAS SSD Usage Information**

| Usage | Description |
|---|---|
| Useful life | 5 years Minimum |
| Expected annualized failure rate (AFR) for normal 24/7 operating conditions | 0.44% |
| Operating temperature (Case) | 0 to 65 degrees Celsius |
| Other environmental factors | Conforms to IEC standards |

**Table 200 GB SAS SSD Capacity and Performance**

| Attribute | Value |
|---|---|
| Part number | MZILG960HCHQ-00AU3 |
| Identifier | MSCAC2DD6ORA200G |
| Oracle capacity | 200GB |
| Oracle LBA count (max 512B) | 390,721,968 |
| Random 4 KB read per second | 380K IOPS |
| Random 4 KB write per second | 150K IOPS |
| Sequential read | 2100 MB/s |
| Sequential write | 1050 MB/s |
| Interface data transfer rate | 12 Gbps/6 Gbps/3 Gbps/1.5 Gbps (Gigabits per second), auto negotiation, dual port, full duplex |

**Table 800 GB SAS SSD Capacity and Performance**

| Attribute | Value |
|---|---|
| Part number | MZILG1T9HCJR-00AU3 |
| Identifier | MSCAC2DD4ORA800G |
| Oracle capacity | 800GB |
| Oracle LBA count (max 512B) | 1,562,824,368 |
| Random 4 KB read per second | 250K IOPS |
| Random 4 KB write per second | 170K IOPS |
| Sequential read (single port) | 1070 MB/s |
| Sequential write (single port) | 1050 MB/s |
| Interface data transfer rate | 12 Gbps/6 Gbps/3 Gbps/1.5 Gbps (Gigabits per second), auto negotiation, dual port, full duplex |

**Table 7680 GB SAS SSD Capacity and Performance**

| Attribute | Value |
|---|---|
| Part number | MZILG7T6HBLA-00AU3 |
| Identifier | MSCAC2DD2ORA7.6T |

**Table (Cont.) 7680 GB SAS SSD Capacity and Performance**

| Attribute | Value |
|---|---|
| Oracle capacity | 7680GB |
| Oracle LBA count (max 512B) | 15,002,931,868 |
| Random 4 KB read per second | 360K IOPS |
| Random 4 KB write per second | 95K IOPS |
| Sequential read | 2100 MB/s |
| Sequential write | 2050 MB/s |
| Interface data transfer rate | 12 Gbps/6 Gbps/3 Gbps/1.5 Gbps (Gigabits per second), auto negotiation, dual port, full duplex |

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