

Enterprise-class SSD delivers outstanding performance and endurance.

Kingston's enterprise-class E100 solid-state drive is ideal for mission-critical environments such as datacenters, which need to be up and running 24 hours a day, 7 days a week. E100 combines impressive endurance and reliability with power fail support to ensure uninterrupted operation.

E100 offers 10X endurance over typical client SSDs, with 30K program/erase cycles on E100 vs. 3K program/erase cycles on client SSDs. It features a SF-2500 enterprise class processor, DuraWrite™ for maximum read/write performance and endurance and RAISE™ for advanced error correction.

E100's power fail support uses Tantalum capacitors so existing writes are committed and/or retired during a power loss to prevent any data loss. The capacitors can hold a charge at temperatures up to 85 degrees (other companies use SuperCaps which can hold a charge at temperatures up to 75 degrees). Additionally, the drive shuts down properly during unexpected power interruptions.

With read/write performance delays often associated with large data sets, E100 helps solve these IO latency bottlenecks in servers. It enables larger enterprise virtualization projects by increasing the number of virtual systems supported using the existing hardware infrastructure.

E100 is backed by a three-year warranty and legendary Kingston® reliability.

- > Boost performance, productivity and endurance
- > Power Fail support for data integrity protection on critical server applications



Features/specs on reverse >>





KINGSTON PART NUMBERS

SE100S37/400G

SSDNow E100

FEATURES/BENEFITS

- > **Performance** higher IOPS for multi-user environments
- > **Endurance** Data Integrity Protection featuring DuraClass™ Technology
- > **Dependable** RAISE[™] for advanced data reliability
- > **Durable** DuraWrite optimizes writes to extend endurance
- > Warranty/support three-year warranty with free technical support

SPECIFICATIONS

- > Form factor 2.5"
- > Interface SATA Rev. 3.0 (6Gb/s) with backwards compatibility to SATA Rev. 2.0 (3Gb/s)
- > Capacities¹ 100GB, 200GB, 400GB
- > Controller SandForce SF2582
- > Encryption Automatic Encryption (AES 128bit)
- > Sequential Read/Write²

SATA Rev. 3.0 - 100GB - up to: 535/500MB/s 200GB – up to: 535/500MB/s 400GB – up to: 535/500MB/s

> Maximum 4k Read/Write² 100GB – up to 85,000/79,000 IOPS

200GB - up to 85,000/76,000 IOPS 400GB - up to 74,000/37,000 IOPS

- > Random 4k Read/Write² 100GB up to: 42,000/78,000 IOPS 200GB - up to: 59,000/76,000 IOPS
- 400GB up to: 52,000/31,000 IOPS > Enterprise SMART Tools reliability tracking, usage statistics, life remaining, wear leveling, temperature
- > Total Bytes Written (TBW)³ 100GB 1241TB11 DWPD⁴ 200GB - 2483TB11 DWPD⁴ 400GB - 3906TB 9 DWPD⁴
- > Power Failure Support Tantalum capacitors
- > Power Consumption 1.18 W Idle / 1.18 W Avg / 1.22 W (MAX) Read / 3.23 W (MAX) Write
- > Storage temperature -40 $\sim 85^{\circ}$ C
- > Operating temperature $0 \sim 70^{\circ}$ C
- > **Dimensions** 69.9mm x 100mm x 7mm
- > Weight 96.6 grams
- > **Vibration operating** 2.17G Peak (7–800Hz)
- > Vibration non-operating 20G Peak (10–2000Hz)
- > MTBF 1 million hours
- > **Guaranteed** three-year warranty with free technical support





Drive Writes Per Day (DWPD)
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