Enterprise-class SSD delivers outstanding performance and endurance.

Kingston's enterprise-class E100 solid-state drive is ideal for mission-critical environments such as data centres, which need to be up and running 24 hours a day, 7 days a week. E100 combines impressive endurance and reliability with power-failure 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 an SF-2500 enterprise-class processor, DuraWrite™ for maximum read/write performance and endurance and RAISE™ for advanced error correction.

E100's power failure support uses tantalum capacitors so existing writes are committed and/or retired during a power loss to prevent the loss of data. The capacitors can hold a charge at temperatures of up to 85 degrees (other companies use SuperCaps which can hold a charge at temperatures of 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 virtualisation 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 failure support for data integrity protection on critical server applications

Features/specs on reverse ⟩⟩

Kingston® TECHNOLOGY

SSD*Now* E100

F E A T U R E S / B E N E F I T S

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

S P E C I F I C A T I O N S

> **Form factor** 2.5"
> **Interface** SATA Rev. 3.0 (6Gb/s), SATA Rev. 2.0 (3Gb/s), SATA Rev. 1.0 (1.5Gb/s)
> **Capacities**[1] 100GB, 200GB, 400GB
> **Sequential reads**[2]
    SATA Rev. 3.0 — 100GB, 200GB, & 400GB - 535MB/s
    SATA Rev. 2.0 — 100GB, 200GB, & 400GB - 270MB/s
> **Sequential writes**[2]
    SATA Rev. 3.0 — 100GB, 200GB, & 400GB - 500MB/s
    SATA Rev. 2.0 — 100GB & 200GB - 255MB/s
                    400GB - 260MB/s
> **Sustained random 4k read/write**[2]
    100GB – 47,000/81,000 IOPS
    200GB – 59,000/72,000 IOPS
    400GB – 52,000/37,000 IOPS
> **Maximum random 4k read/write**[2]
    100GB – 55,000/83,000 IOPS
    200GB – 59,000/73,000 IOPS
    400GB – 52,000/37,000 IOPS
> **Enterprise SMART tools** Reliability Tracking, Usage Statistics, Life Remaining, Wear Levelling, Temperature, Drive Life Protection
> **Power consumption**
    100GB — 0.5W (TYP) idle / 1.2W (TYP) read / 2.7W (TYP) write
    200GB — 0.5W (TYP) idle / 1.2W (TYP) read / 3.1W (TYP) write
    400GB — 0.5W (TYP) idle / 1.2W (TYP) read / 5.0W (TYP) write
> **Dimensions** 69.9mm x 100mm x 7mm
> **Weight** 96.6 grams
> **Storage temperature** -40°C ~ 85°C
> **Operating temperature** 0°C ~ 70°C
> **TRIM** Not supported
> **MTBF** 10,000,000 hrs
> **Total Bytes Written (TBW)**[3] 100GB – 428TB
                                    200GB – 857TB
                                    400GB – 1714TB

Test system: Intel® C600 Romley Server Platform

KINGSTON PART NUMBERS

SE100S37/100G

SE100S37/200G

SE100S37/400G