

SOLID STATE DRIVE
 FLASH STORE
 DURABLE
 PC MEMORY
 DURABLE
 FLASH STORE
 PERFORMANCE
 FLASH SUPGRADE KIT
 STORE
 SOLID STATE DRIVE

SSDNow E50

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

SPECIFICATIONS

- > **Form factor** 2.5"
- > **Interface** SATA Rev. 3.0 (6Gb/s) – with backwards compatibility to SATA Rev. 2.0 (3Gb/s)
- > **Capacities**¹ 100GB, 240GB, 480GB
- > **Controller** SandForce-SF2581
- > **Encryption** Automatic Encryption (AES 128bit)
- > **Sequential Read/Write**² SATA Rev. 3.0 – 100GB – up to 550/530MB/s
 240GB – up to 550/530MB/s
 480GB – up to 530/500MB/s
- > **Maximum 4k Read/Write**² 100GB — 85,000/ 80,000 IOPS
 240GB — 85,000/ 73,000 IOPS
 480GB — 74,000/ 36,000 IOPS
- > **Random 4k Read/Write**² 100GB — 27,000/ 82,000 IOPS
 240GB — 48,000/ 72,000 IOPS
 480GB — 53,000/ 32,000 IOPS
- > **Enterprise SMART tools** reliability tracking, usage statistics, life remaining, wear leveling, temperature
- > **Total Bytes Written (TBW)**³ 100GB – 310TB 3 DWPD⁴
 240GB – 739TB 3 DWPD⁴
 480GB – 1,747TB 3 DWPD⁴
- > **Power fail support** Tantalum capacitors
- > **Power consumption** 1.25 W Idle / 1.27 W Avg / 1.43 W (MAX) Read / 2.74 W (MAX) Write
- > **Storage temperature** -40°C ~ 85°C
- > **Operating temperature** 0°C ~ 70°C
- > **Dimensions** 69.9mm x 100mm x 7mm
- > **Weight** 92.34g
- > **Vibration operating** 2.17G Peak (7–800Hz)
- > **Vibration non-operating** 20G Peak (10–2000Hz)
- > **MTBF** 1 million hours
- > **Warranty/support** 3-year warranty with free technical support



KINGSTON PART NUMBERS

SE50S37/100G
 SE50S37/240G
 SE50S37/480G

¹ Some of the listed capacity on a Flash storage device is used for formatting and other functions and thus is not available for data storage. As such, the actual available capacity for data storage is less than what is listed on the products. For more information, go to Kingston's Flash memory Guide at kingston.com/flashguide.

² Based on "out-of-box performance." Speed may vary due to host hardware, software and usage.

³ Total Bytes Written (TBW) is derived from the JEDEC Workload (JESD219A).

⁴ Drives Writes Per Day (DWPD)

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