



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**<sup>1</sup> 100GB, 240GB, 480GB
- > **Controller** SandForce-SF2581
- > **Encryption** Automatic Encryption (AES 128bit)
- > **Sequential Read/Write**<sup>2</sup> 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**<sup>2</sup> 100GB — 85,000/ 80,000 IOPS  
 240GB — 85,000/ 73,000 IOPS  
 480GB — 74,000/ 36,000 IOPS
- > **Random 4k Read/Write**<sup>2</sup> 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)**<sup>3</sup> 100GB – 310TB 3 DWPD<sup>4</sup>  
 240GB – 739TB 3 DWPD<sup>4</sup>  
 480GB – 1,747TB 3 DWPD<sup>4</sup>
- > **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

<sup>1</sup> 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](http://kingston.com/flashguide).

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

<sup>3</sup> Total Bytes Written (TBW) is derived from the JEDEC Workload (JESD219A).

<sup>4</sup> Drives Writes Per Day (DWPD)

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