



## Increase IOPs without sacrificing data integrity.

Kingston's SSDNow E50 features high IOPs and bandwidth performance to solve I/O latencies and bottlenecks and increase your server's performance. E50's 6Gbps SATA interface provides maximum bandwidth over 500MB/s read/write. This drive is built with MLC Sync NAND and is rated at 60,000 read/write IOPS versus an average IOPS rating of 300 for a 15K SAS HDD.

E50's advanced data integrity protection gives you peace of mind by ensuring a longer life for your data and your drive. DuraWrite™ extends the life of the SSD by efficiently reducing the Flash writes without sacrificing data integrity. RAISE™ technology provides superior protection against uncorrectable errors, while overprovisioning and advanced wear-levelling ensure consistent performance and wear over the life of the drive.

SSDNow E50 also features intelligent power failure protection to prevent data loss in the case of a power failure. It's backed by a three-year warranty, free technical support and legendary Kingston® reliability.

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- > High IOPS and bandwidth performance
  - > Advanced data integrity protection
  - > Intelligent power failure protection

### SSDNow E50



SSDNow E50 is ideal for:

- Server boot time improvements
- Server pagefile storage
- Server caching
- Server application & storage acceleration

Features/specs on reverse >>

SOLID-STATE DRIVE  
**STORE Durable**  
**MEMORY**  
**FLASH**  
**PERFORMANCE**  
**FLASH**  
**UPGRADE 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 optimises 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 levelling, 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-failure 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 is thus 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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