



CoreVolt 2 Technology

REAL-TIME SSD POWER STABILIZATION FOR
DATA AND DEVICE PROTECTION



Unstable power can corrupt data, disrupt operations, and shorten SSD lifespan. Apacer's patented CoreVolt 2 technology (Patent No.: I864916, China) provides real-time power stabilization to ensure stable SSD operation and data protection.



Real-Time Voltage Detection

Monitors power input and identifies voltage drops, surges, or irregularities the moment they occur.



Instant Power Compensation

Built-in tantalum polymer capacitors provide temporary power to stabilize SSD operation during voltage fluctuations.



Data Corruption Prevention

Ensures in-progress data transmissions are completed safely, preventing data loss or corruption.



Enhanced Device Stability

Safeguards against power instability, ensuring stable SSD performance and reducing the risk of downtime.

Product Specification



Model Name	SV25V-25	SV25V-M280	PV25V-M280
Form Factor	2.5"	M.2 2280	M.2 2280
Interface	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	PCIe Gen4 x4
NAND Flash Type	3D TLC	3D TLC	3D TLC
Capacity	120GB~1920GB	120GB~1920GB	120GB~1920GB
Max. Sequential R/W (MB/sec.)	Up to 500	Up to 555	Up to 3740
Max. Random R/W (IOPS)	64K	67K	669K
External DRAM Buffer	No	No	No
Operating Temperature (°C)	STD: 0°C ~ 70°C WT: -40°C ~ 85°C	STD: 0°C ~ 70°C WT: -40°C ~ 85°C	STD: 0°C ~ 70°C WT: -40°C ~ 85°C

In a World

Where Data Drives Every Decision,

Apacer leads in SSD and DRAM innovation, providing advanced solutions tailored to both consumer and industrial needs. From specialized applications to entertainment, we ensure fast, reliable storage and processing.

More than just products, we partner with you to solve challenges, optimize performance, and future-proof your operations. Our commitment to excellence empowers you to unlock the full potential of your data.

Access the Best — Where Reliability Meets Innovation.

“At Apacer, innovation is at the heart of everything we do. We're unlocking the full potential of data, no matter where it resides, and delivering transformative solutions that drive business growth and enrich lives worldwide.”

Gibson Chen
President of Apacer

