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CorePower Technology

Ensuring Data Stability During Power Failures

CorePower integrates a backup power supply to ensure stable data transmission, minimize data loss, and ensure uninterrupted operations during unexpected power outages.

Seamless Data Protection
Prevents data loss during power outages by ensuring all data is securely transferred to NAND flash.

Uninterrupted Operations
Keep critical applications running smoothly, minimizing disruptions during unexpected power failures.

Reliable Data Security
Keeps data safe without relying on software, providing independent and robust protection.

Product Specification

Model name	PV25P-M280	PV25P-M242	PV25P-CFX	SV24P-25
Form Factor	M.2 2280	M.2242	CFexpress Type B	2.5"
Interface	PCIe Gen4 x4	PCIe Gen4 x4	PCIe Gen4 x4	SATA 3.2 (6Gb/s)
NAND Flash Type	3D TLC	3D TLC	3D TLC	3D TLC
Capacity	240GB-3840GB	240GB-960GB	240GB-960GB	120GB-1920GB
Max. Sequential R/W (MB/sec.)	3700/3490	3740/2945	3740/2940	565/510
Max. Random R/W (IOPS)	326K/620K	579K/590K	275K/484K	94K/78K
External DRAM Buffer	No	No	No	Yes
Operating Temperature (℃)	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	STD: 0°C ~ 70°C WT:-40°C ~ 85°C

Product Specification

Model name	SV24P-M280	SH25P-M280	SH25P-M242	SV25P-Cfast
Form Factor	M.2 2280	M.2 2280	M.2 2242	CFast
Interface	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)	SATA 3.2 (6Gb/s)
NAND Flash Type	3D TLC	3D TLC	3D TLC	3D TLC
Capacity	120GB-1920GB	40GB-640GB	40GB-160GB	120GB-960GB
Max. Sequential R/W (MB/sec.)	565/510	560/510	560/505	555/490
Max. Random R/W (IOPS)	98K/78K	57K/69K	56K/69K	50K/59K
External DRAM Buffer	Yes	No	No	No
Operating Temperature (℃)	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	STD: 0°C ~ 70°C WT:-40°C ~ 85°C