Controller   **PS5012-E12**

Capacity[1]	128GB	256GB	512GB	1024GB	2048GB
Interface	PCIe Gen3x4 NVMe 1.3				
Form Factor	M.2 2280-S2, M2 2280-D2				
NAND Flash	3D TLC				
Performance (Up to)[2, 3]					
Sequential Read	1500 MB/s	3200 MB/s	3200 MB/s	3200 MB/s	3200 MB/s
Sequential Write	500 MB/s	1000 MB/s	2000 MB/s	3000 MB/s	3000 MB/s
4K Random Read	90K IOPS	180K IOPS	360K IOPS	600K IOPS	600K IOPS
4K Random Write	110K IOPS	250K IOPS	500K IOPS	600K IOPS	600K IOPS
Power					
Supply Voltage	M.2 3.3V ± 5; HHHL 12V ± 5; U.2 12V ± 5				
Max (Average)	3.6 W	5.9 W	7 W	7.3 W	7.6 W
Active (Average)[4]	3.5 W	5.5 W	6.7 W	7.2 W	7.5 W
Idle					
Low Power PS4 (L1.2)	2 mW	2 mW	2 mW	2 mW	2 mW
Temperature					
Operating	0°C - 70°C				
Non-Operating	0°C - 85°C				
Advanced Features	• End-to-End Data Protection • Pyrite/OPAL Support • Thermal Monitoring				

[1] 1GB = 1,000,000,000 bytes
[2] 1MB/s = 1,000,000 bytes / second
[3] Performance is based on Crystal Disk Mark 6.0.0, test size 1GiB, and test drive set as secondary
[4] Measured with MobileMark 2014

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