

HDD Characteristics and Metrics, Sept 2020

Form Factor	Interface	Category	RPM (K RPM)	Format	Cap	Interface Speed	Max Capacity (GB)	Max Power Consumption (Watts)**	Random IOPS *70% Read/ 30% Write (8k transfer per command) Q = 4 Volatile WC = off	Random IOPS *100% Read (8k transfer per command) Q = 4	MB/s *Sequential 100% Read(64k transfer per command) Q = 4	MB/s *Sequential 100% Write (64k transfer per command) Q = 4 Volatile WC = off	
2.5"	SAS	Mission Critical	15	4Kn	600/900GB	12Gbps	900	12	300	260	290	290	
				512e	900GB	12Gbps	900	12	300	259	283	283	
				512n	300/600/900GB	12Gbps	900	12	250	270	290	275	
			10	4Kn/512e	1.8TB	12Gbps	1800	12	210	190	230	230	
				4Kn/512e	2.4TB	12Gbps	1800	12	220	190	250	250	
				512n	300/600/1.2TB	12Gbps	1200	12	190	200	195	195	
	SATA	Mission Critical	7.2	512e	2TB	6Gbps	2000	12	115	120	130	130	
				512n	500GB/1TB	6Gbps	1000	12	115	120	130	130	
			7.2	512e	2TB	3Gbps	2000	12	115	120	130	130	
				512n	500/1TB	3Gbps	1000	12	115	120	130	130	
3.5"	SAS	Business Critical	7.2	4Kn/512e	6TB	12Gbps	8000	18.64	120	115	210	210	
				4Kn/512e	8TB	12Gbps	8000	18.64	114	109	199	199	
				4Kn/512e	10TB	12Gbps	8000	18.64	146	118	230	230	
				4Kn/512e	12TB	12Gbps	8000	18.64	148	118	228	228	
				512e	14TB	12Gbps	8000	18.64	125	116	249	249	
				512e	16TB	12Gbps	8000	18.64	140	114	256	256	
				512n	1TB/2TB/4TB	12Gbps	4000	18.64	115	120	190	195	
	SATA		Business Critical	7.2	512e	6TB	6Gbps	8000	18.64	113	116	210	210
					512e	8TB	6Gbps	8000	18.64	114	109	199	199
					512e	10TB	6Gbps	8000	18.64	146	118	230	230
					512e	12TB	6Gbps	8000	18.64	148	118	228	228
					512e	14TB	6Gbps	8000	18.64	125	116	249	249
					512e	16TB	6Gbps	8000	18.64	140	114	256	256
					512n	1TB/2TB/4TB	6Gbps	4000	18.64	115	120	195	195