

Dell Drive Characteristics - November 2013

FF	SSD / HDD	Interface	Swimlanes	RPM (KRPM)	(11/18/11-Nov12) 2012 Release Capacity (GB)	2013 Release Capacity (GB)	Enclosure "U"	Drives per enclosure	Interface Speed	Max Capacity GB	MTBF (M hrs)	Cache Size (MB)	DWPD	Typical Active Power (Watts)	Random IOPS 70% Read/ 30% Write (8k transfer per command) Q=4 SATA WC = on SAS WC = off	
1.8"	SSD	uSATA	Read Intensive	*NA	50/200		2	24	3Gb	200	2M	NA	3	3	3371	
						50/200	2	24	3Gb	200	2M	256	3	5	2878	
2.5"	SSD	SAS	Mixed Use	*NA	200/400		2	24	6Gb	400	2M	512	10	9	8784	
			Read Intensive	*NA	200/400		2	24	6Gb	400	2M	32	10	9	10988	
			Write Intensive	*NA	200/400	800/1600	2	24	6Gb	1600	2M	512	1	9	5925	
				*NA	200/400		2	24	6Gb	400	2M	512	25	9	13163	
		SATA	Mixed Use	*NA		100/200/400/800	2	24	3Gb	800	1.2M	64	10	6	10863	
			Read Intensive	*NA		100/200/400/800	2	24	6Gb	800	1.2M	64	10	6	11859	
	HDD	SAS	Mission Critical	15		146/300		2	24	6Gb	300	2M	16/32/64	*NA	9	264
						300/600/900		2	24	6Gb	900	2M	32	*NA	9	176
						300/450/600/900		2	24	6Gb	900	2M	64	*NA	9	186
				10		1.2TB		2	24	6Gb	1200	2M	64	*NA	9	174
						300/600/900	300/600/900	2	24	6Gb	900	2M	512	*NA	9	194
					Nearline	7.2	500/1000		2	24	6Gb	1000	1.2M	16	*NA	6.5
SATA	Nearline	7.2	250/500/1000		2	24	3Gb	1000	1.2M	32	*NA	6	142			
3.5"	HDD	SAS	Mission Critical	15	300/450/600		2	12	6Gb	600	1.6M	16/64	*NA	18	230	
						1/2/3/4TB		2	12	6Gb	4000	1.2M	128	*NA	13	117
						1/2/3/4TB		2	12	6Gb	4000	1.2M	64	*NA	13	108
						2/3/4TB		2	12	6Gb	4000	1.2M	64	*NA	12	112
						2000		2	12	6Gb	2000	1.2M	32	*NA	12	102
						2000/3000		2	12	6Gb	3000	1.2M	64	*NA	12	107
		SATA	Nearline	7.2	1000/2000/3000/4000		2	12	6Gb	4000	1.2M	32	*NA	15	106	
						2/3/4TB		2	12	3Gb	4000	1.2M	64	*NA	12	119
						1/2/3/4TB		2	12	3Gb	4000	1.2M	128	*NA	12	138
						1/2/3/4TB		2	12	3Gb	4000	1.2M	64	*NA	13	129
						3000		2	12	3Gb	3000	1.2M	32/64	*NA	13	157
						2000/3000/4000		2	12	3Gb	4000	1.2M	64	*NA	12	126

*values represent typical and may vary depending on product models

*DU - Data not available

*NA - Not Applicable

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FF	SSD / HDD	Interface	Swimlanes	RPM (KRPM)	(11/18/11-Nov12) 2012 Release Capacity (GB)	2013 Release Capacity (GB)	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 SATA WC = On SAS WC = Off	Max Weight (lb)	GB per Watt (@ Max cap)	Sequential Streaming MB/s per Watt (@ Max cap)	Random IOPS per Watt (@ Max cap)	GB per Random IOPS (@ Max cap)	TB per U (@ Max cap)	IOP per U (@ Max cap)	
1.8"	SSD	uSATA	Read Intensive	*NA	50/200		8570	151	43	0.09	67	50	1124	0.1	2.4	40452	
						50/200	10463	180	41	*DU	61	55	872	0.1	2.4	34542	
2.5"	SSD	SAS	Mixed Use	*NA	200/400		12398	390	152	0.5	44	43	976	0.0	4.8	105402	
			Read Intensive	*NA	200/400		19204	401	236	0.36	44	45	1221	0.0	4.8	131856	
			Write Intensive	*NA	200/400		800/1600	8057	372	92	0.5	178	41	658	0.3	19.2	71094
				*NA	200/400		19890	368	448	0.49	80	74	2633	0.0	4.8	157956	
			*NA	200/400		10569	425	236	0.5	33	35	833	0.0	4.8	119993		
			*NA	100/200/400/800		18726	227	200	0.16	133	38	1811	0.1	9.6	130361		
		SATA	Mixed Use	*NA	100/200/400/800		23677	350	274	0.16	133	58	1977	0.1	9.6	142308	
	Read Intensive		*NA	160/300/600	160/300/480/800	16955	205	59	0.16	160	41	1420	0.1	9.6	85176		
		HDD	SAS	Mission Critical	15	146/300		273	183	183	0.52	33	20	29	1.1	3.6	3168
					10	300/600/900		197	193	193	0.51	100	21	20	5.1	10.8	2108
					10	300/450/600/900		194	189	187	0.45	100	21	21	4.8	10.8	2232
					10	1.2TB		178	179	180	0.5	133	20	19	6.9	14.4	2084
	10				300/600/900	300/600/900	201	190	189	0.5	100	21	22	4.6	10.8	2332	
	7.2				500/1000		115	111	111	0.55	154	17	16	9.4	12	1272	
	SATA	Nearline	7.2	250/500/1000		116	109	109	0.55	167	18	24	7.1	12	1698		
		Mission Critical	15	300/450/600		237	200	197	1.5	33	11	13	2.6	3.6	1379		
3.5"	HDD	SAS	Nearline	7.2		1/2/3/4TB	121	183	182	*DU	333	15	10	34.2	24	701	
				7.2		1/2/3/4TB	113	161	161	1.76	333	13	9	37.0	24	649	
				7.2		2/3/4TB	115	183	183	1.48	606	28	17	35.7	24	673	
				7.2		2000	105	148	147	1.5	167	12	9	19.6	12	612	
				7.2		2000/3000	108	153	152	1.83	319	16	11	28.0	18	642	
				7.2		1000/2000/3000/4000	111	172	171	1.66	267	11	7	37.7	24	636	
		SATA	Nearline	7.2		2/3/4TB	109	154	154	1.66	333	13	10	33.5	24	716	
				7.2		1/2/3/4TB	120	183	182	*DU	421	19	15	29.0	24	827	
				7.2		1/2/3/4TB	107	154	154	1.58	333	13	11	31.0	24	773	
				7.2		3000	107	150	150	1.5	231	12	12	19.1	18	942	
7.2		2000/3000/4000	109	172	171	1.83	351	15	11	31.7	24	756					

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