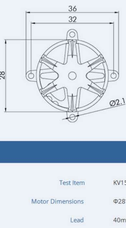
Product Drawing



Specifications

Test Item	KV1500	Weight (Incl. Cable)	22.3g
Motor Dimensions	Ø28*18.7mm	Internal Resistance	138.5mΩ
Lead	40mm	Configuration	12N14P
Shaft Diameter	IN：4mm	Rated Voltage(Lipo)	2-3S
Idle Current(10V)	0.7A	Peak Current(180s)	17A
Max. Power(180s)	193W		

Test Item	KV1850	Weight (Incl. Cable)	22.5g
Motor Dimensions	Ø28*18.7mm	Internal Resistance	78.2mΩ
Lead	40mm	Configuration	12N14P
Shaft Diameter	IN：4mm	Rated Voltage(Lipo)	2-3S
Idle Current(10V)	0.95A	Peak Current(180s)	22A
Max. Power(180s)	180W		

Test Report

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
AM40 KV1500	T-MOTOR 8044	40%	11.98	2.30	27.50	5848	0.034	220	8.01	72 (Ambient Temperature:/)
		45%	11.97	2.95	35.35	6286	0.039	259	7.33	
		50%	11.95	3.81	45.52	6743	0.045	306	6.71	
		55%	11.94	4.80	57.35	7221	0.053	353	6.16	
		60%	11.92	5.89	70.20	7648	0.060	402	5.73	
		65%	11.90	7.15	85.06	8062	0.068	455	5.35	
		70%	11.87	8.36	99.30	8421	0.075	503	5.06	
		75%	11.85	9.67	114.56	8763	0.083	552	4.82	
		80%	11.82	11.13	131.59	9128	0.090	598	4.54	
		90%	11.77	14.47	170.28	9732	0.104	692	4.07	
		100%	11.75	15.38	180.67	9818	0.105	701	3.88	
	T-MOTOR 8044	40%	8.73	1.33	11.63	4581	0.018	132	11.33	83 (Ambient Temperature:/)
		45%	8.73	1.73	15.08	4944	0.021	153	10.16	
		50%	8.72	2.15	18.75	5256	0.025	175	9.33	
		55%	8.71	2.66	23.18	5574	0.028	203	8.74	
		60%	8.70	3.37	29.29	6008	0.033	236	8.04	
		65%	8.68	4.18	36.28	6386	0.038	271	7.46	
		70%	8.67	5.05	43.79	6744	0.043	308	7.03	
		75%	8.65	5.94	51.39	7068	0.047	342	6.66	
		80%	8.64	6.99	60.33	7411	0.053	380	6.30	
		90%	8.60	9.31	80.03	8052	0.064	450	5.63	
		100%	8.58	10.14	87.00	8255	0.067	526	5.43	
	T-MOTOR 9048	40%	7.69	1.08	8.27	4211	0.015	107	12.89	63 (Ambient Temperature:/)
		45%	7.68	1.39	10.70	4477	0.018	132	12.35	
		50%	7.68	1.72	13.18	4803	0.021	148	11.26	
		55%	7.67	2.09	16.05	5029	0.023	169	10.55	
		60%	7.66	2.62	20.09	5378	0.027	197	9.80	
		65%	7.65	3.27	25.02	5758	0.031	225	9.00	
		70%	7.64	4.02	30.73	6116	0.035	257	8.35	
		75%	7.62	4.80	36.62	6422	0.040	291	7.94	
		80%	7.61	5.62	42.75	6733	0.044	319	7.47	
		90%	7.57	7.70	58.32	7377	0.053	387	6.64	
		100%	7.56	8.41	63.60	7587	0.056	423	6.40	
	T-MOTOR 9048	40%	11.97	2.41	28.85	5393	0.034	241	8.35	89 (Ambient Temperature:/)
		45%	11.96	3.29	39.34	5927	0.042	293	7.45	
		50%	11.94	4.24	50.66	6315	0.048	340	6.71	
		55%	11.93	5.32	63.47	6804	0.056	398	6.26	
		60%	11.90	6.56	78.11	7241	0.064	451	5.77	
		65%	11.88	7.98	94.79	7634	0.072	504	5.32	
		70%	11.85	9.21	109.17	7972	0.079	555	5.08	
		75%	11.83	10.59	125.28	8270	0.087	601	4.79	
		80%	11.80	12.17	143.63	8589	0.094	647	4.50	
		90%	11.75	15.43	181.23	9181	0.108	727	4.01	
		100%	11.73	16.37	192.04	9257	0.109	742	3.86	
	T-MOTOR 9048	40%	8.73	1.41	12.27	4234	0.021	168	11.59	76 (Ambient Temperature:/)
		45%	8.72	1.80	15.66	4555	0.023	198	10.71	
		50%	8.71	2.34	20.38	4908	0.027	233	9.67	
		55%	8.70	3.02	26.31	5304	0.032	271	8.72	
		60%	8.69	3.81	33.08	5711	0.037	315	8.08	
		65%	8.67	4.72	40.97	6061	0.043	360	7.44	
		70%	8.66	5.59	48.36	6442	0.048	399	7.00	
		75%	8.64	6.59	56.97	6740	0.054	442	6.58	
		80%	8.62	7.72	66.59	7024	0.059	498	6.33	
		90%	8.58	10.22	87.65	7703	0.070	589	5.69	
		100%	8.56	11.37	97.33	7881	0.076	632	5.50	
	T-MOTOR 9048	40%	7.68	1.38	8.96	3863	0.018	138	13.08	65 (Ambient Temperature:/)
		45%	7.68	1.75	11.37	4124	0.021	159	11.86	
		50%	7.67	2.17	14.13	4393	0.023	183	10.98	
		55%	7.66	2.78	18.04	4729	0.027	215	10.08	
		60%	7.65	3.58	23.25	5106	0.031	254	9.24	
		65%	7.64	4.44	28.76	5477	0.036	292	8.61	
		70%	7.63	5.45	35.24	5792	0.042	332	7.98	
		75%	7.61	6.47	41.76	6094	0.047	373	7.57	
		80%	7.60	7.60	48.91	6394	0.052	412	7.14	
		90%	7.56	10.22	65.47	6989	0.061	493	6.38	
		100%	7.54	11.14	71.24	7117	0.064	532	6.18	

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.
(Date above based on benchtest are for reference only, comparison with that of other motor types is not recommended.)

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
AM40 KV1850	T-MOTOR 8044	40%	7.84	2.75	21.57	5457	0.023	169	7.84	69 (Ambient Temperature:/)
		45%	7.83	3.33	26.10	5766	0.028	199	7.64	
		50%	7.82	3.92	30.66	6220	0.031	225	7.33	
		55%	7.80	4.61	35.98	6531	0.035	254	7.06	
		60%	7.78	5.64	43.85	6987	0.041	297	6.77	
		65%	7.75	6.73	52.20	7384	0.046	338	6.47	
		70%	7.73	7.86	60.77	7855	0.051	373	6.15	
		75%	7.69	9.16	70.44	8201	0.057	426	6.05	
		80%	7.66	10.46	80.13	8633	0.061	462	5.77	
		90%	7.58	13.87	105.17	9383	0.075	557	5.30	
		100%	7.55	15.12	114.16	9557	0.079	603	5.20	
	T-MOTOR 8044	40%	8.82	3.28	28.92	5907	0.030	209	7.38	76 (Ambient Temperature:/)
		45%	8.81	3.98	35.02	6310	0.034	240	7.00	
		50%	8.79	4.73	41.63	6715	0.039	272	6.67	
		55%	8.77	5.72	50.15	7196	0.044	318	6.47	
		60%	8.75	6.83	59.76	7633	0.050	360	6.15	
		65%	8.72	8.15	71.04	8105	0.056	415	5.96	
		70%	8.69	9.59	83.25	8487	0.063	464	5.68	
		75%	8.65	11.11	96.10	8876	0.069	518	5.50	
		80%	8.62	12.89	111.04	9306	0.076	565	5.19	
		90%	8.52	16.87	143.74	10025	0.091	675	4.79	
		100%	8.50	18.03	153.21	10323	0.094	702	4.67	
	T-MOTOR 9048	40%	7.84	3.03	23.77	4894	0.030	193	8.60	82 (Ambient Temperature:/)
		45%	7.83	3.77	29.48	5330	0.035	224	8.08	
		50%	7.80	4.87	37.98	5771	0.042	276	7.72	
		55%	7.78	5.98	46.51	6274	0.048	319	7.29	
		60%	7.75	7.33	56.82	6684	0.055	371	6.94	
		65%	7.72	8.80	67.95	7124	0.063	420	6.57	
		70%	7.68	10.40	79.93	7529	0.070	473	6.28	
		75%	7.65	11.81	90.39	7896	0.075	512	6.01	
		80%	7.61	13.77	104.80	8207	0.084	577	5.85	
		90%	7.53	17.61	132.62	8914	0.096	666	5.34	
		100%	7.50	19.18	143.78	9066	0.102	700	5.17	
	T-MOTOR 9048	40%	8.82	3.68	32.44	5541	0.037	239	8.04	90 (Ambient Temperature:/)
		45%	8.80	4.78	42.05	6024	0.045	294	7.66	
		50%	8.77	6.13	53.80	6596	0.053	345	7.01	
		55%	8.75	7.47	65.34	7002	0.060	398	6.67	
		60%	8.71	9.11	79.41	7525	0.069	465	6.40	
		65%	8.67	10.90	94.47	7965	0.078	530	6.13	
		70%	8.63	12.96	111.87	8349	0.087	590	5.77	
		75%	8.60	14.59	125.39	8740	0.094	649	5.66	
		80%	8.55	16.68	142.66	9127	0.102	705	5.41	
		90%	8.45	21.34	180.28	9790	0.117	813	4.93	
		100%	8.42	22.91	192.77	9908	0.121	843	4.78	

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.
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Contents

motorx1

Parts Bagx1