T-Motor AT2814

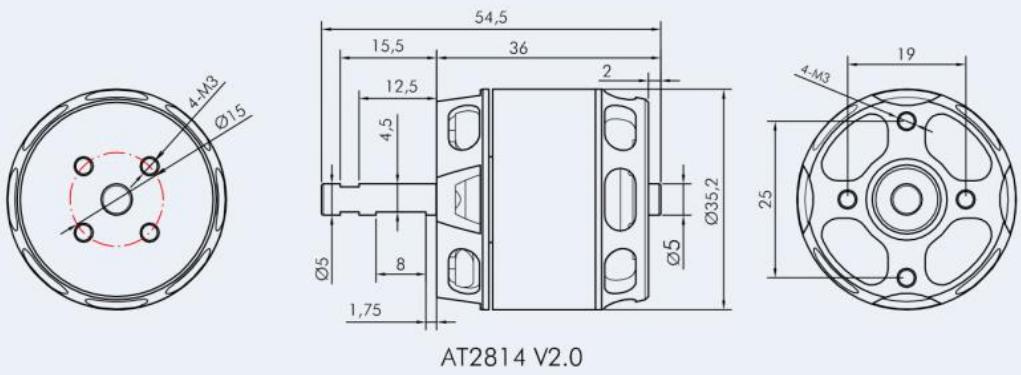
Specifications

Test Item	Long Shaft KV900	Weight (Incl. Cable)	108g
Motor Dimensions	Φ35.2*54.5mm	Internal Resistance	82mΩ
Lead	Enameled Wire 100mm	Configuration	12N14P
Shaft Diameter	IN：5mm OUT：5mm	Rated Voltage(Lipo)	3-4S
Idle Current(10V)	1.2A	Peak Current(180s)	45A
Max. Power(180s)	650W	Recommendation	/

Test Item	Long Shaft KV1050	Weight (Incl. Cable)	107g
Motor Dimensions	Φ35.2*54.5mm	Internal Resistance	35mΩ
Lead	Enameled Wire 100mm	Configuration	12N14P
Shaft Diameter	IN：5mm OUT：5mm	Rated Voltage(Lipo)	3-4S
Idle Current(10V)	1.5A	Peak Current(180s)	50A
Max. Power(180s)	700W	Recommendation	/

Test Item	Long Shaft KV1200	Weight (Incl. Cable)	108g
Motor Dimensions	Φ35.2*54.5mm	Internal Resistance	26mΩ
Lead	Enameled Wire 100mm	Configuration	12N14P
Shaft Diameter	IN：5mm OUT：5mm	Rated Voltage(Lipo)	3-4S
Idle Current(10V)	1.8A	Peak Current(180s)	55A
Max. Power(180s)	800W	Recommendation	/

Product Drawing



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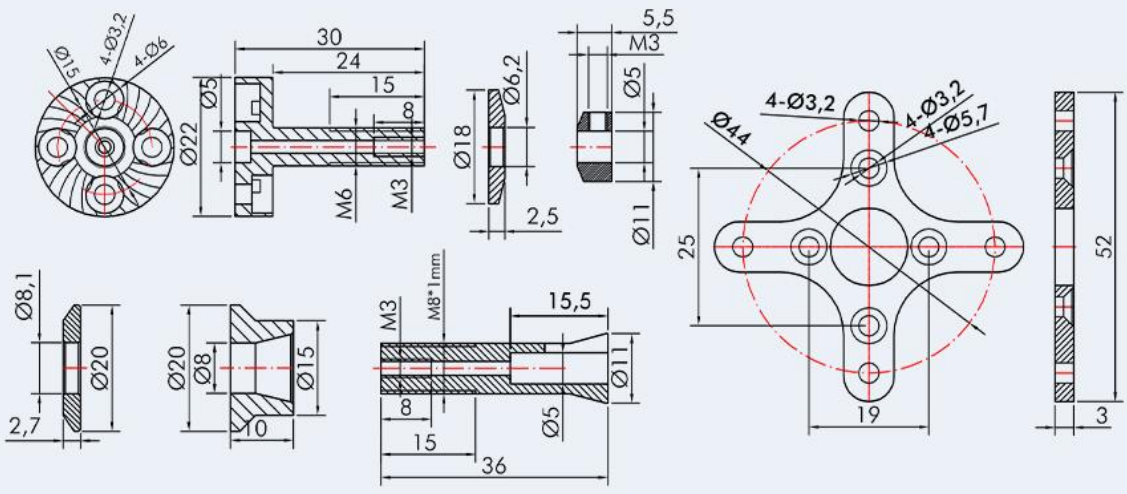

Test Report

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
AT2814 Long Shaft KV900	APC 10*5.5	40%	15.19	6.54	99.39	6433	0.105	687	6.91	93 (Ambient Temperature:/)
		45%	15.17	7.72	117.10	6833	0.119	763	6.52	
		50%	15.15	8.96	135.73	7179	0.134	857	6.31	
		55%	15.12	10.24	154.86	7470	0.149	946	6.11	
		60%	15.10	11.45	172.98	7775	0.162	1021	5.90	
		65%	15.08	12.90	194.54	8086	0.172	1113	5.72	
		70%	15.04	14.98	225.30	8515	0.197	1234	5.48	
		75%	15.00	17.28	259.18	8915	0.218	1375	5.31	
		80%	14.95	20.11	300.72	9356	0.242	1523	5.07	
		85%	14.90	23.55	350.72	9791	0.272	1702	4.85	
		90%	14.84	26.79	397.61	10216	0.295	1831	4.60	
		95%	14.79	29.89	442.00	10464	0.321	1984	4.49	
		100%	14.79	29.81	440.87	10453	0.319	1976	4.48	
	APC 11*5.5	40%	15.18	6.83	103.71	6028	0.118	744	7.17	93 (Ambient Temperature:/)
		45%	15.16	8.18	123.93	6411	0.134	847	6.84	
		50%	15.13	9.55	144.57	6750	0.150	946	6.55	
		55%	15.11	10.93	165.20	7078	0.165	1037	6.28	
		60%	15.08	12.68	191.16	7407	0.185	1154	6.04	
		65%	15.04	15.03	226.09	7773	0.210	1305	5.77	
		70%	14.99	17.61	264.01	8171	0.234	1456	5.51	
		75%	14.95	20.26	302.96	8565	0.260	1598	5.27	
		80%	14.89	23.65	352.30	8948	0.291	1781	5.06	
		90%	14.77	31.16	460.18	9729	0.348	2099	4.56	
		100%	14.72	34.23	503.64	9927	0.370	2216	4.40	

	APC 12*6	40%	11.42	5.06	57.77	4348	0.087	523	9.05	68 (Ambient Temperature:/)
		45%	11.40	6.09	69.41	4651	0.101	604	8.70	
		50%	11.39	7.15	81.41	4928	0.113	679	8.35	
		55%	11.37	8.28	94.16	5164	0.126	756	8.03	
		60%	11.35	9.50	107.84	5456	0.139	838	7.77	
		65%	11.31	11.26	127.36	5753	0.159	951	7.47	
		70%	11.28	13.36	150.67	6123	0.179	1069	7.10	
		75%	11.24	15.83	177.89	6467	0.204	1210	6.80	
		80%	11.20	18.43	206.33	6784	0.226	1334	6.47	
		90%	11.09	24.46	271.34	7395	0.275	1613	5.95	
		100%	11.05	27.02	298.67	7601	0.291	1720	5.76	
	APC 13*6.5	40%	11.41	5.56	63.41	3943	0.105	578	9.11	82 (Ambient Temperature:/)
		45%	11.40	6.57	74.85	4177	0.116	651	8.70	
		50%	11.38	7.74	88.06	4437	0.133	738	8.38	
		55%	11.35	9.40	106.71	4770	0.153	850	7.96	
		60%	11.31	11.68	132.11	5146	0.177	988	7.48	
		65%	11.27	14.08	158.66	5465	0.205	1131	7.13	
		70%	11.22	17.03	191.10	5803	0.232	1285	6.73	
		75%	11.17	19.80	221.20	6082	0.259	1425	6.44	
		80%	11.12	22.89	254.54	6355	0.287	1573	6.18	
		90%	11.01	29.95	329.65	6886	0.337	1856	5.63	
		100%	10.96	32.64	357.75	7047	0.357	1953	5.46	

Note: Motor temperature is motor surface temperature @100% throttle running 10mins.
(Date above based on benchtest are for reference only, comparion 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 (℃)
AT2814 Long Shaft KV1050	APC 10*5.5	40%	15.15	8.71	131.99	7022	0.127	801	6.07	78 (Ambient Temperature:/)
		45%	15.12	10.45	157.93	7441	0.145	916	5.80	
		50%	15.09	11.87	179.20	7764	0.160	1008	5.63	
		55%	15.06	13.90	209.37	8182	0.180	1128	5.39	
		60%	15.03	15.62	234.80	8511	0.197	1219	5.19	
		65%	14.99	17.82	267.21	8876	0.214	1347	5.04	
		70%	14.95	20.20	302.00	9332	0.232	1452	4.81	
		75%	14.90	23.42	348.93	9763	0.261	1625	4.66	
		80%	14.83	27.59	409.06	10268	0.291	1802	4.41	
		90%	14.67	36.92	541.62	11133	0.352	2169	4.00	
		100%	14.62	39.83	582.49	11297	0.370	2274	3.90	
	APC 11*5.5	40%	15.14	9.26	140.21	6563	0.143	904	6.45	93 (Ambient Temperature:/)
		45%	15.11	11.13	168.14	6954	0.165	1033	6.14	
		50%	15.07	13.12	197.78	7323	0.186	1158	5.85	
		55%	15.04	15.13	227.55	7678	0.207	1287	5.66	
		60%	14.99	17.70	265.35	8058	0.230	1430	5.39	
		65%	14.94	20.90	312.22	8455	0.260	1600	5.13	
		70%	14.89	23.91	356.01	8829	0.285	1749	4.91	
		75%	14.81	28.74	425.55	9298	0.325	1979	4.65	
		80%	14.73	33.27	490.09	9708	0.360	2172	4.43	
		90%	14.57	43.03	627.03	10384	0.421	2503	3.99	
		100%	14.52	46.09	669.24	10518	0.437	2553	3.82	
	APC 12*6	40%	11.39	6.82	77.66	4719	0.105	632	8.13	57 (Ambient Temperature:/)
		45%	11.37	8.28	94.08	5080	0.122	727	7.73	
		50%	11.34	9.72	110.24	5359	0.138	823	7.46	
		55%	11.31	11.36	128.45	5639	0.153	915	7.12	
		60%	11.28	13.38	150.96	5984	0.173	1036	6.87	
		65%	11.24	15.83	177.87	6329	0.195	1169	6.57	
		70%	11.19	18.58	207.95	6667	0.219	1309	6.29	
		75%	11.14	21.79	242.75	6992	0.245	1464	6.03	
		80%	11.07	25.81	285.74	7372	0.275	1632	5.71	
		90%	10.95	32.90	360.35	7923	0.319	1894	5.26	
		100%	10.90	36.08	393.28	8146	0.338	1988	5.05	
	APC 13*6.5	40%	11.39	7.08	80.66	4188	0.119	672	8.33	79 (Ambient Temperature:/)
		45%	11.36	8.63	98.04	4503	0.140	770	7.86	
		50%	11.33	10.53	119.33	4832	0.160	886	7.43	
		55%	11.28	13.32	150.26	5216	0.189	1052	7.00	
		60%	11.24	16.03	180.13	5569	0.215	1199	6.66	
		65%	11.18	19.35	216.34	5921	0.245	1363	6.30	
		70%	11.12	23.02	255.89	6264	0.272	1516	5.92	
		75%	11.06	26.36	291.60	6526	0.299	1665	5.71	
		80%	11.00	30.04	330.47	6781	0.323	1804	5.46	
		90%	10.86	38.58	419.08	7283	0.379	2097	5.00	
		100%	10.80	42.37	457.66	7430	0.399	2196	4.80	

Note: Motor temperature is motor surface temperature @100% throttle running 10mins.
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Continued below

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (℃)
AT2814 Long Shaft KV1200	APC 9*6	40%	15.10	11.63	175.60	8205	0.141	868	4.94	85 (Ambient Temperature:/)
		45%	15.06	13.82	208.07	8704	0.160	978	4.70	
		50%	15.03	15.84	238.11	9162	0.177	1085	4.55	
		55%	14.99	18.17	272.26	9519	0.195	1179	4.33	
		60%	14.95	20.40	304.98	9844	0.213	1255	4.11	
		65%	14.91	22.93	341.80	10207	0.234	1354	3.96	
		70%	14.85	26.00	386.18	10630	0.258	1463	3.79	
		75%	14.78	30.26	447.22	11085	0.289	1611	3.60	
		80%	14.71	34.78	511.54	11611	0.320	1760	3.44	
		90%	14.54	45.13	656.04	12479	0.379	2044	3.12	
		100%	14.46	49.57	716.86	12788	0.402	2152	3.00	
	APC 10*5.5	40%	15.08	12.35	186.32	7724	0.157	981	5.27	97 (Ambient Temperature:/)
		45%	15.05	14.40	216.68	8136	0.175	1093	5.04	
		50%	15.00	17.11	256.71	8583	0.197	1240	4.83	
		55%	14.96	19.78	295.95	8985	0.219	1370	4.63	
		60%	14.91	22.58	336.63	9352	0.241	1497	4.45	
		65%	14.87	25.20	374.61	9712	0.262	1620	4.33	
		70%	14.80	29.08	430.36	10169	0.290	1779	4.13	
		75%	14.72	33.92	499.21	10615	0.324	1982	3.97	
		80%	14.64	38.94	569.96	11052	0.355	2169	3.81	
		90%	14.44	50.56	730.26	11862	0.420	2519	3.45	
		100%	14.37	54.64	785.36	12029	0.436	2616	3.33	
	APC 10*5.5	40%	11.36	8.64	98.08	6337	0.102	635	6.47	66 (Ambient Temperature:/)
		45%	11.33	10.24	115.94	6707	0.116	722	6.23	
		50%	11.30	11.84	133.77	7033	0.130	812	6.07	
		55%	11.27	13.34	150.44	7366	0.142	888	5.90	
		60%	11.25	14.79	166.46	7644	0.151	949	5.70	
		65%	11.22	16.53	185.52	7926	0.165	1037	5.59	
		70%	11.19	18.79	210.19	8265	0.179	1142	5.44	
		75%	11.14	21.19	236.13	8607	0.199	1244	5.27	
		80%	11.08	24.79	274.71	9078	0.222	1386	5.05	
		90%	10.95	32.66	357.65	9880	0.268	1655	4.63	
		100%	10.90	35.83	390.52	10077	0.285	1767	4.52	
	APC 11*5.5	40%	11.35	9.00	102.12	5872	0.109	712	6.97	82 (Ambient Temperature:/)
		45%	11.32	10.79	122.12	6261	0.125	810	6.63	
		50%	11.29	12.54	141.54	6577	0.140	905	6.39	
		55%	11.25	14.42	162.26	6885	0.156	1004	6.19	
		60%	11.22	16.37	183.64	7190	0.171	1101	5.99	
		65%	11.17	19.15	213.97	7543	0.194	1238	5.79	
		70%	11.13	21.68	241.32	7830	0.214	1354	5.61	
		75%	11.06	25.69	284.19	8217	0.240	1515	5.33	
		80%	11.00	29.55	325.09	8605	0.266	1670	5.14	
		90%	10.86	37.99	412.68	9281	0.314	1949	4.72	
		100%	10.80	41.64	449.82	9503	0.332	2044	4.54	

Note: Motor temperature is motor surface temperature @100% throttle running 10mins.
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Contents

Motor×1

Parts Bag×1

(AT28Series V2.0-Aluminum Washerφ6.1*16*2.5mm*1,Prop adapter φ22*30mm-M6*1, Washer (Non-slip design)18*6.2*2.5mm *1,M6 Nut*1,Cup-head set screwM3*6mm*4,Motor baseφ20*10mm*1, 5 to 8 Collet-style prop adapterφ11*36mm*1,Washer (Non-slip design)20*8.1*2.7mm *1, M8 Thin Nut (Stainless Steel)M8*1*4mm *2,C-Clipsφ9*4*3.5mm*1,Hexagon set screwM3*4mm*1, Cross style motor mount25*19*3MM*1, Mount screwsM3*6mm*4)

Please check that your package contains all the above items before use, If something is missing, please contact online customer service or leave message to onlinesales@rctigermotor.com