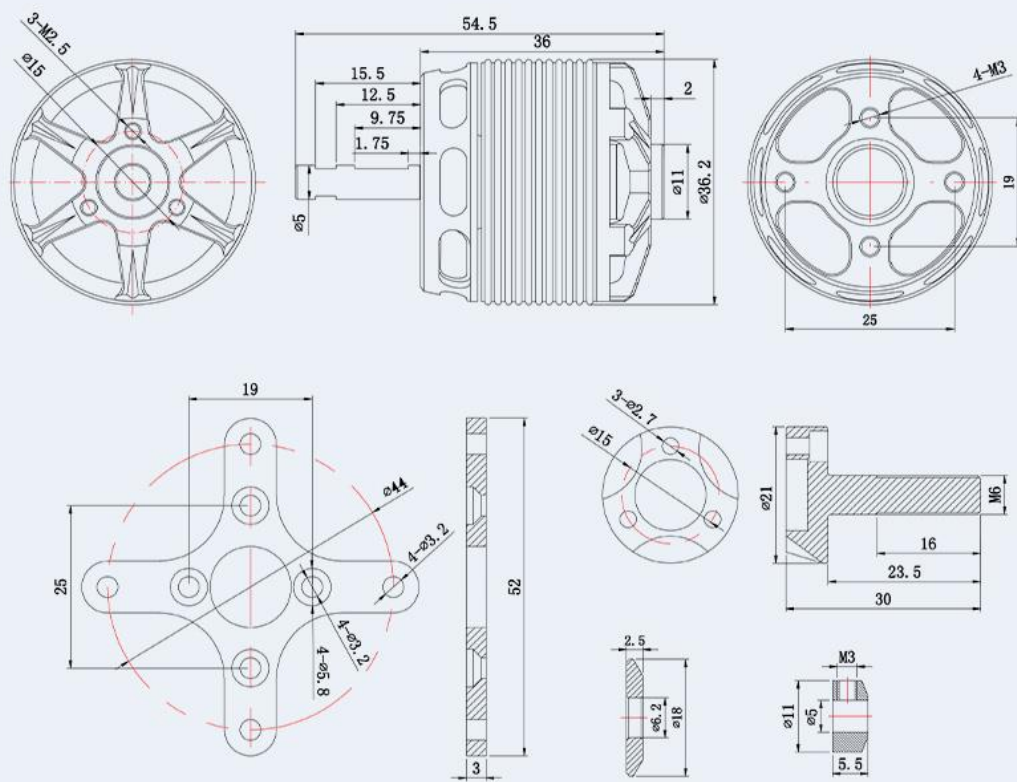


Product Drawing



Specifications

Test Item	Long Shaft KV900	Weight (Incl. Cable)	110g
Motor Dimensions	$\Phi 36.2 \times 54.5$ mm	Internal Resistance	43.5m $\Omega$
Lead	Enameled Wire 100mm	Configuration	12N14P
Shaft Diameter	IN : 5mm OUT : 5mm	Rated Voltage(Lipo)	3-4S
Idle Current(10V)	1.35A	Peak Current(180s)	37A
Max. Power(180s)	553W	Recommendation	/
Test Item	Long Shaft KV1050	Weight (Incl. Cable)	112g
Motor Dimensions	$\Phi 36.2 \times 54.5$ mm	Internal Resistance	34.6m $\Omega$
Lead	Enameled Wire 100mm	Configuration	12N14P
Shaft Diameter	IN : 5mm OUT : 5mm	Rated Voltage(Lipo)	3-4S
Idle Current(10V)	1.35A	Peak Current(180s)	49A
Max. Power(180s)	718W	Recommendation	/
Test Item	Long Shaft KV1200	Weight (Incl. Cable)	112g
Motor Dimensions	$\Phi 36.2 \times 54.5$ mm	Internal Resistance	25.2m $\Omega$
Lead	Enameled Wire 100mm	Configuration	12N14P
Shaft Diameter	IN : 5mm OUT : 5mm	Rated Voltage(Lipo)	3-4S
Idle Current(10V)	2.21A	Peak Current(180s)	61A
Max. Power(180s)	885W	Recommendation	/

Test Item	Long Shaft KV2000	Weight (Incl. Cable)	116g
Motor Dimensions	Φ36.2*54.5mm	Internal Resistance	11mΩ
Lead	Enameled Wire 100mm	Configuration	12N14P
Shaft Diameter	IN : 5mm OUT : 5mm	Rated Voltage(Lipo)	2-3S
Idle Current(10V)	4.5A	Peak Current(180s)	42A
Max. Power(180s)	441W	Recommendation	/

### Test Report

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (°C)	
AS2814 Long Shaft KV900	APC 10*5.5	40%	15.89	7.13	113.25	6653	0.114	696	6.14	83 (Ambient Temperature:°)	
		45%	15.86	8.35	132.43	7015	0.129	780	5.89		
		50%	15.83	9.70	153.52	7373	0.144	874	5.69		
		55%	15.80	10.88	171.89	7660	0.157	949	5.52		
		60%	15.77	12.54	197.71	7997	0.174	1052	5.32		
		65%	15.73	14.52	228.35	8391	0.196	1165	5.10		
		70%	15.68	16.47	258.28	8762	0.215	1284	4.97		
		75%	15.61	19.34	301.94	9224	0.239	1424	4.72		
		80%	15.54	22.28	346.32	9703	0.262	1558	4.50		
		90%	15.37	29.93	459.95	10530	0.320	1882	4.09		
	100%	15.30	32.72	500.58	10763	0.341	1989	3.97			
	APC 11*5.5	40%	15.89	7.35	116.83	6422	0.125	753	6.44	93 (Ambient Temperature:°)	
		45%	15.86	8.66	137.43	6774	0.141	850	6.19		
		50%	15.82	10.10	159.86	7151	0.157	945	5.91		
		55%	15.79	11.64	183.84	7496	0.173	1039	5.65		
		60%	15.74	13.45	211.72	7817	0.195	1109	5.24		
		65%	15.68	16.24	254.67	8188	0.229	1213	4.76		
		70%	15.63	18.60	290.72	8585	0.252	1396	4.80		
		75%	15.56	21.56	335.42	9015	0.278	1592	4.74		
		80%	15.48	25.08	388.07	9464	0.306	1766	4.55		
		90%	15.28	33.34	509.61	10233	0.370	2103	4.13		
	100%	15.21	36.34	552.95	10448	0.389	2209	3.99			
	APC 12*6	40%	11.88	5.35	63.50	4549	0.092	523	8.24	69 (Ambient Temperature:°)	
		45%	11.86	6.35	75.24	4866	0.103	596	7.92		
		50%	11.83	7.44	88.00	5152	0.116	667	7.57		
		55%	11.81	8.52	100.64	5425	0.127	738	7.34		
		60%	11.78	9.72	114.57	5692	0.138	804	7.02		
		65%	11.74	11.59	136.03	6042	0.159	918	6.75		
		70%	11.68	13.97	163.22	6395	0.183	1060	6.49		
		75%	11.63	16.19	188.28	6730	0.203	1172	6.23		
		80%	11.57	18.79	217.53	7064	0.225	1296	5.96		
		90%	11.43	25.03	286.06	7682	0.274	1557	5.44		
	100%	11.37	27.44	312.15	7887	0.293	1656	5.31			
			40%	11.87	5.70	67.72	4127	0.106	561	8.28	
			45%	11.85	6.73	79.74	4399	0.118	634	7.95	
			50%	11.82	7.98	94.38	4690	0.134	714	7.57	
			55%	11.78	9.77	115.14	5014	0.155	834	7.25	

**Continued below**



APC 13*6.5	60%	11.73	11.86	139.12	5369	0.179	959	6.89	82 (Ambient Temperature:°)
	65%	11.68	14.31	167.12	5713	0.205	1101	6.59	
	70%	11.61	17.19	199.57	6046	0.232	1245	6.24	
	75%	11.55	19.99	230.78	6339	0.257	1376	5.96	
	80%	11.47	23.05	264.46	6643	0.281	1499	5.67	
	90%	11.31	30.26	342.33	7173	0.335	1781	5.20	
	100%	11.25	33.08	372.13	7347	0.354	1885	5.06	

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.  
(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 (°C)
AS2814 Long Shaft KV1050	APC 10*5.5	40%	15.79	9.66	152.52	7248	0.136	827	5.42	92 (Ambient Temperature:°)
		45%	15.76	11.48	180.90	7657	0.157	944	5.22	
		50%	15.71	13.20	207.28	8033	0.172	1042	5.03	
		55%	15.66	15.24	238.67	8345	0.195	1165	4.88	
		60%	15.61	17.61	274.98	8747	0.216	1288	4.68	
		65%	15.55	20.21	314.22	9142	0.237	1423	4.53	
		70%	15.48	23.37	361.77	9605	0.263	1570	4.34	
		75%	15.39	27.38	421.30	10064	0.297	1752	4.16	
		80%	15.29	31.67	484.19	10506	0.326	1917	3.96	
		90%	15.06	41.60	626.63	11362	0.385	2251	3.59	
	100%	15.02	43.68	655.87	11446	0.399	2320	3.54		
	APC 11*5.5	40%	15.77	9.94	156.76	6967	0.150	899	5.73	79 (Ambient Temperature:°)
		45%	15.72	11.83	185.92	7367	0.171	1019	5.48	
		50%	15.68	13.73	215.24	7756	0.190	1108	5.15	
		55%	15.62	16.37	255.58	8053	0.226	1174	4.59	
		60%	15.56	19.09	296.92	8544	0.249	1359	4.58	
		65%	15.49	22.02	341.14	8950	0.275	1542	4.52	
		70%	15.40	25.78	397.04	9389	0.307	1742	4.39	
		75%	15.31	29.80	456.05	9824	0.338	1907	4.18	
		80%	15.19	34.88	529.96	10235	0.377	2106	3.97	
		90%	14.94	46.36	692.40	10917	0.450	2454	3.54	
	100%	14.89	48.22	718.16	11014	0.457	2474	3.44		
	APC 12*6	40%	11.86	7.18	85.10	4968	0.108	616	7.24	71 (Ambient Temperature:°)
		45%	11.82	8.53	100.80	5308	0.123	701	6.96	
		50%	11.79	9.88	116.43	5612	0.136	773	6.64	
		55%	11.75	11.39	133.89	5880	0.152	871	6.51	
		60%	11.71	13.45	157.51	6190	0.172	982	6.23	
		65%	11.65	16.06	187.02	6545	0.196	1113	5.95	
		70%	11.58	18.95	219.48	6932	0.220	1249	5.69	
		75%	11.52	21.80	251.12	7273	0.242	1368	5.45	
		80%	11.44	25.11	287.30	7617	0.268	1512	5.26	
		90%	11.26	33.10	372.82	8217	0.325	1808	4.85	
	100%	11.19	36.14	404.45	8443	0.344	1902	4.70		
	APC 13*6.5	40%	11.84	7.50	88.82	4448	0.124	655	7.37	85 (Ambient Temperature:°)
		45%	11.81	9.04	106.73	4764	0.142	751	7.04	
		50%	11.77	10.86	127.88	5105	0.162	859	6.72	
		55%	11.71	13.39	156.73	5480	0.186	999	6.37	
		60%	11.65	16.15	188.18	5843	0.213	1142	6.07	
		65%	11.57	19.48	225.36	6186	0.243	1300	5.77	
		70%	11.49	22.98	263.98	6524	0.271	1444	5.47	
75%		11.41	26.55	302.81	6809	0.299	1595	5.27		
80%		11.31	30.66	346.80	7101	0.328	1752	5.05		
90%		11.11	39.68	440.88	7625	0.388	2049	4.65		
100%	11.03	43.27	477.24	7746	0.410	2149	4.50			

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.  
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Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (°C)
AS2814 Long Shaft KV1200	APC 9*6	40%	15.75	11.65	183.57	8564	0.143	813	4.43	67 (Ambient Temperature:°)
		45%	15.72	13.66	214.74	9057	0.161	912	4.25	
		50%	15.67	15.80	247.56	9540	0.177	1000	4.04	
		55%	15.61	17.98	280.71	9920	0.194	1095	3.90	
		60%	15.57	19.99	311.22	10256	0.213	1192	3.83	
		65%	15.51	22.53	349.45	10675	0.233	1296	3.71	
		70%	15.44	25.57	394.73	11135	0.256	1406	3.56	
		75%	15.34	29.71	455.79	11680	0.286	1543	3.39	
		80%	15.24	34.35	523.32	12192	0.314	1673	3.20	
		90%	14.98	45.75	685.48	13130	0.383	1941	2.83	
	100%	14.88	50.25	747.73	13436	0.405	2013	2.69		
	APC 10*5.5	40%	15.73	12.59	197.98	7826	0.162	977	4.94	56 (Ambient Temperature:°)
		45%	15.68	15.06	236.11	8247	0.186	1116	4.73	
		50%	15.61	17.78	277.52	8701	0.211	1253	4.51	
		55%	15.56	20.61	320.61	9139	0.232	1381	4.31	
		60%	15.47	24.03	371.71	9575	0.258	1532	4.12	
		65%	15.39	27.41	421.86	9939	0.287	1685	3.99	
		70%	15.28	32.08	490.17	10429	0.323	1880	3.84	
		75%	15.17	36.95	560.55	10897	0.353	2057	3.67	
		80%	15.05	42.23	635.73	11361	0.387	2241	3.52	
90%		14.76	55.60	820.51	12117	0.456	2583	3.15		
100%	14.64	60.43	884.95	12329	0.482	2683	3.03			
		40%	11.81	8.81	103.99	6344	0.104	624	6.00	
		45%	11.77	10.35	121.85	6700	0.117	706	5.79	
		50%	11.74	11.97	140.54	7046	0.136	802	5.71	
		55%	11.70	13.69	160.16	7362	0.151	888	5.54	

		90%	11.14	38.41	427.67	9704	0.322	1858	4.34	
		100%	11.04	42.49	469.21	9924	0.342	1980	4.22	

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.  
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Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (°C)
AS2814 Long Shaft KV2000	APC 9*6	40%	11.11	12.42	138.00	14745	0.054	435	3.15	67 (Ambient Temperature:/)
		45%	11.03	13.52	149.04	15339	0.058	474	3.18	
		50%	10.92	14.70	160.63	15815	0.062	505	3.15	
		55%	10.84	15.77	170.94	16229	0.066	537	3.14	
		60%	10.78	16.52	177.99	16544	0.068	563	3.16	
		65%	10.72	17.31	185.55	16882	0.071	587	3.16	
		70%	10.68	17.91	191.20	17234	0.073	625	3.27	
		75%	10.66	18.58	198.12	17483	0.076	645	3.26	
		80%	10.60	18.92	200.50	17671	0.077	652	3.25	
		90%	10.45	20.77	217.00	18250	0.083	707	3.26	
	100%	10.35	22.48	232.81	18840	0.088	744	3.20		
	APC 10*5.5	40%	10.79	16.08	173.52	11994	0.089	644	3.71	56 (Ambient Temperature:/)
		45%	10.64	18.05	192.01	12482	0.096	703	3.66	
		50%	10.56	20.11	212.31	12968	0.105	757	3.56	
		55%	10.45	21.99	229.76	13337	0.113	808	3.52	
		60%	10.34	23.84	246.61	13696	0.119	857	3.48	
		65%	10.25	25.48	261.07	14009	0.127	902	3.45	
		70%	10.16	26.99	274.13	14237	0.132	939	3.43	
		75%	10.07	28.40	286.02	14477	0.137	975	3.41	
		80%	10.00	29.78	297.91	14716	0.143	1009	3.39	
90%		9.86	37.06	365.30	15858	0.170	1182	3.24		
100%	9.87	41.63	410.77	16442	0.186	1279	3.11			

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

## Contents



Motorx1



Parts Bagx1

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