

Test Report

Type	Propeller	Throttle	Voltage (V)	Current (A)	Power (W)	RPM	Torque (N*m)	Thrust (g)	Efficiency (g/W)	Operating Temperature (°C)
AS2317 Long Shaft KV880	APC 10*5.5	40%	15.87	4.75	75.42	5803	0.088	520	6.90	88 (Ambient Temperature:/)
		45%	15.86	5.64	89.48	6159	0.099	588	6.57	
		50%	15.84	6.60	104.60	6508	0.111	658	6.29	
		55%	15.81	7.57	119.71	6781	0.123	731	6.10	
		60%	15.79	8.73	137.83	7140	0.135	810	5.88	
		65%	15.75	10.40	163.72	7553	0.151	908	5.55	
		70%	15.71	12.07	189.62	7912	0.163	1000	5.27	
		75%	15.66	14.07	220.41	8293	0.184	1120	5.08	
		80%	15.61	16.40	255.94	8689	0.206	1244	4.86	
		90%	15.48	21.68	335.67	9428	0.254	1507	4.49	
	100%	15.44	23.42	361.63	9658	0.265	1571	4.35		
	APC 11*5.5	40%	15.87	4.94	78.36	5599	0.094	571	7.29	87 (Ambient Temperature:/)
		45%	15.85	5.84	92.54	5928	0.106	647	6.99	
		50%	15.84	6.86	108.72	6277	0.118	722	6.64	
		55%	15.81	7.90	124.93	6576	0.132	797	6.38	
		60%	15.77	9.44	148.82	6949	0.158	893	6.00	
		65%	15.73	11.28	177.34	7381	0.175	1001	5.65	
		70%	15.68	13.14	206.11	7736	0.194	1118	5.42	
		75%	15.64	15.32	239.54	8090	0.214	1257	5.25	
		80%	15.57	17.85	278.07	8456	0.234	1387	4.99	
		90%	15.44	23.56	363.81	9130	0.281	1649	4.53	
	100%	15.40	25.64	394.81	9306	0.295	1728	4.38		
	APC 12*6	40%	11.92	3.69	44.02	3991	0.070	394	8.94	79 (Ambient Temperature:/)
		45%	11.91	4.31	51.36	4246	0.078	452	8.80	
		50%	11.89	5.09	60.52	4491	0.084	514	8.50	
		55%	11.87	5.95	70.58	4772	0.095	587	8.32	
		60%	11.85	7.13	84.50	5100	0.109	667	7.90	
		65%	11.81	8.65	102.19	5438	0.126	769	7.52	
		70%	11.77	10.29	121.16	5761	0.144	875	7.22	
		75%	11.73	12.11	142.10	6065	0.162	967	6.80	
		80%	11.68	14.09	164.64	6371	0.185	1050	6.38	
		90%	11.58	18.59	215.32	6905	0.221	1253	5.82	
	100%	11.54	20.31	234.35	7098	0.228	1338	5.71		
	APC 13*8	40%	11.91	4.26	50.70	3404	0.090	424	8.36	74 (Ambient Temperature:/)
		45%	11.89	5.10	60.67	3641	0.103	488	8.04	
		50%	11.86	6.36	75.37	3938	0.120	556	7.38	
		55%	11.83	7.87	93.05	4268	0.146	667	7.17	
		60%	11.78	9.77	115.08	4579	0.168	762	6.63	
		65%	11.73	11.86	139.10	4891	0.191	881	6.34	
		70%	11.68	14.03	163.92	5147	0.212	993	6.06	
75%		11.63	16.44	191.19	5384	0.230	1114	5.83		
80%		11.57	18.95	219.27	5626	0.249	1214	5.54		
90%		11.44	24.39	279.20	6042	0.290	1411	5.05		
100%	11.40	26.36	300.47	6166	0.302	1461	4.86			

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.
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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 (°C)
AS2317 Long Shaft KV1250	APC 8*6	40%	15.85	8.04	127.35	8634	0.100	555	4.36	85 (Ambient Temperature:/)
		45%	15.82	9.38	148.35	9111	0.112	621	4.19	
		50%	15.77	10.86	171.19	9520	0.125	689	4.03	
		55%	15.75	12.24	192.78	9884	0.136	743	3.85	
		60%	15.71	13.76	216.17	10226	0.148	807	3.73	
		65%	15.67	15.22	238.57	10616	0.159	867	3.63	
		70%	15.63	17.12	267.53	11016	0.175	942	3.52	
		75%	15.57	19.58	304.97	11552	0.193	1033	3.39	
		80%	15.50	22.96	355.85	12097	0.214	1155	3.24	
		90%	15.32	30.39	465.50	13041	0.261	1353	2.91	
	100%	15.25	33.26	507.31	13289	0.278	1416	2.79		
	APC 9*6	40%	15.82	8.80	139.20	7735	0.118	667	4.79	83 (Ambient Temperature:/)
		45%	15.77	10.55	166.41	8182	0.134	755	4.54	
		50%	15.73	12.34	194.20	8607	0.150	837	4.31	
		55%	15.69	14.18	222.53	9019	0.161	911	4.09	
		60%	15.64	16.42	256.80	9425	0.181	1007	3.92	
		65%	15.59	18.54	289.06	9780	0.198	1095	3.79	
		70%	15.53	21.24	329.79	10247	0.218	1199	3.64	
		75%	15.45	24.66	380.89	10737	0.244	1318	3.46	
		80%	15.37	28.16	432.75	11166	0.264	1419	3.28	
		90%	15.17	36.46	553.20	11953	0.313	1640	2.96	
	100%	15.11	39.46	596.13	12188	0.326	1691	2.84		
	APC 9*6	40%	11.87	6.16	73.12	6268	0.075	434	5.94	72 (Ambient Temperature:/)
		45%	11.85	7.27	86.16	6665	0.084	491	5.70	
		50%	11.82	8.35	98.68	7001	0.094	547	5.54	
		55%	11.80	9.47	111.67	7334	0.098	606	5.43	
		60%	11.77	10.59	124.66	7619	0.105	655	5.25	
		65%	11.74	11.86	139.25	7922	0.116	716	5.14	
		70%	11.70	13.49	157.91	8277	0.128	786	4.98	
		75%	11.66	15.38	179.30	8653	0.141	857	4.78	
		80%	11.61	17.72	205.64	9090	0.158	951	4.63	
		90%	11.48	23.26	266.97	9889	0.191	1135	4.25	
	100%	11.42	25.67	293.13	10160	0.204	1203	4.10		
	APC 10*5.5	40%	11.86	6.55	77.67	5700	0.085	509	6.55	69 (Ambient Temperature:/)
		45%	11.83	7.72	91.33	6058	0.096	575	6.30	
		50%	11.80	9.02	106.44	6370	0.108	645	6.06	
55%		11.77	10.36	121.91	6659	0.121	719	5.89		
60%		11.73	12.01	140.96	6987	0.134	798	5.66		
65%		11.68	14.16	165.48	7403	0.149	894	5.40		
70%		11.64	16.26	189.15	7763	0.164	981	5.18		
75%		11.58	18.76	217.15	8099	0.182	1086	5.00		
80%		11.51	21.52	247.63	8476	0.199	1188	4.80		
90%		11.35	28.26	320.90	9154	0.240	1422	4.43		
100%	11.30	30.82	348.16	9360	0.252	1490	4.28			

Note: Motor temperature is motor surface temperature @100% throttle running 3mins.
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AS2317 Long Shaft KV1400	APC 8*6	40%	15.75	11.76	185.16	9532	0.126	702	3.79	78 (Ambient Temperature:/)
		45%	15.69	13.68	214.69	10034	0.140	779	3.63	
		50%	15.65	15.72	246.13	10488	0.154	852	3.46	
		55%	15.61	17.75	277.04	10913	0.168	919	3.32	
		60%	15.57	19.83	308.70	11264	0.183	1000	3.24	
		65%	15.51	21.82	338.52	11707	0.198	1069	3.16	
		70%	15.44	24.76	382.36	12142	0.217	1190	3.11	
		75%	15.35	28.79	441.85	12649	0.242	1282	2.90	
		80%	15.23	33.96	517.32	13173	0.274	1424	2.75	
		90%	15.01	43.82	657.67	14130	0.318	1601	2.43	
	100%	14.92	47.73	712.17	14325	0.334	1657	2.33		
	APC 8*6	40%	11.82	8.04	95.02	7861	0.080	472	4.96	69 (Ambient Temperature:/)
		45%	11.79	9.32	109.93	8282	0.089	525	4.77	
		50%	11.76	10.65	125.31	8688	0.098	577	4.60	
		55%	11.73	12.01	140.86	9039	0.108	624	4.43	
		60%	11.71	13.28	155.44	9336	0.115	665	4.28	
		65%	11.67	14.56	169.99	9603	0.125	710	4.17	
		70%	11.64	16.18	188.26	9923	0.135	763	4.05	
		75%	11.58	18.24	211.31	10345	0.148	829	3.92	
		80%	11.52	21.00	242.05	10824	0.164	914	3.78	
		90%	11.37	27.80	316.00	11702	0.201	1087	3.44	
	100%	11.31	30.55	345.35	11986	0.213	1153	3.34		
	APC 9*6	40%	11.80	9.00	106.22	7022	0.097	546	5.14	65 (Ambient Temperature:/)
		45%	11.77	10.62	124.96	7429	0.109	616	4.93	
		50%	11.73	12.31	144.29	7807	0.122	686	4.76	
		55%	11.69	14.03	163.99	8172	0.133	749	4.57	
		60%	11.64	15.76	183.56	8499	0.143	810	4.41	
		65%	11.60	17.77	206.12	8811	0.158	885	4.29	
		70%	11.55	19.87	229.58	9151	0.171	956	4.16	
		75%	11.48	22.82	262.12	9622	0.188	1055	4.02	
		80%	11.40	26.37	300.65	10039	0.209	1157	3.85	
		90%	11.23	34.00	381.75	10844	0.245	1356	3.55	
	100%	11.16	37.13	414.33	11070	0.259	1416	3.42		

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