

Specification

Motor Size	$\varnothing 55.6 \times 33.9 \text{mm}$	Copper Wire	220°C high temperature resistance: Level C
Stator	Imported silicon steel sheet; Anti-rust treatment; 150°C high temperature-resisting coatings	Coil Insulation Test	500V
Configuration	24N28P	Centrifugal Cooling Design	YES
Shaft Diameter	IN : 6mm , OUT : 4mm	Rotor Dynamic Balance Standard	$\leq 5 \text{Mg}$
Bearing	Imported 696ZZ	Motor Dynamic Balance Standard	$\leq 10 \text{Mg}$
Magnet Level	180°C high temperature resistance	IP	IP45
Lead Cable	16AWG*150mm		
KV	240	Rated Voltage (Lipo)	6-12S
Idle Current (18V)	0.9A	ESC Recommendation	AIR 40A
Peak Current (180s)	25A	Propeller Recommendation	14-15 / 20-22"
Max.Power (180s)	1200W	Motor Weight (incl. Cable)	170g
Internal Resistance	85m Ω	Package Weight	350g
KV	300	Rated Voltage (Lipo)	6-8S

Idle Current (15V)	1.1A	ESC Recommendation	AIR 40A
Peak Current (180s)	40A	Propeller Recommendation	20-22"
Max.Power (180s)	1000W	Motor Weight (incl. Cable)	170g
Internal Resistance	63mΩ	Package Weight	350g
KV	360	Rated Voltage (Lipo)	6S
Idle Current (15V)	1.4A	ESC Recommendation	AIR 40A
Peak Current (180s)	40A	Propeller Recommendation	17-18"
Max.Power (180s)	1000W	Motor Weight (incl. Cable)	175g
Internal Resistance	45mΩ	Package Weight	350g

Test Data

Type	Propeller	Throttle	Voltage (V)	Thrust (g)	Torque (N*m)	Current (A)	RPM	Power (W)	Efficiency (g/W)	Operating Temperature (°C)
MN501S KV240	LIGPOWER P14*4.8	40%	48.50	975	0.17	2.90	5011	141	6.93	57.5 (Ambient Temperature: 9.2°C)
		42%	48.49	1026	0.18	3.12	5182	151	6.79	
		44%	48.50	1084	0.19	3.36	5337	163	6.65	
		46%	48.49	1142	0.20	3.62	5508	176	6.50	
		48%	48.49	1215	0.21	3.90	5667	189	6.42	
		50%	48.53	1282	0.23	4.20	5834	204	6.30	
		52%	48.53	1386	0.25	4.59	6035	223	6.22	
		54%	48.53	1487	0.26	4.97	6213	241	6.16	
		56%	48.52	1567	0.27	5.33	6383	259	6.06	
		58%	48.53	1646	0.27	5.65	6413	274	6.00	
		60%	48.52	1730	0.30	5.99	6655	290	5.96	
		62%	48.52	1809	0.31	6.35	6829	308	5.87	
		64%	48.52	1905	0.32	6.79	6993	329	5.78	
		66%	48.52	1980	0.34	7.25	7161	352	5.63	
		68%	48.56	2103	0.35	7.78	7340	378	5.57	
		70%	48.55	2204	0.37	8.35	7534	405	5.44	
		75%	48.55	2481	0.42	9.72	7947	472	5.26	
		80%	48.54	2787	0.47	11.35	8376	551	5.06	
		90%	48.53	3314	0.57	14.74	9161	715	4.63	
100%	48.52	3891	0.68	18.52	9870	899	4.33			
		40%	48.59	1166	0.23	3.57	4887	174	6.72	
		42%	48.58	1252	0.24	3.89	5067	189	6.64	
		44%	48.58	1319	0.26	4.17	5198	203	6.51	
		46%	48.58	1412	0.27	4.53	5365	220	6.42	
		48%	48.58	1506	0.29	4.90	5536	238	6.32	
		50%	48.58	1605	0.31	5.30	5684	258	6.23	
		52%	48.58	1710	0.34	5.69	5855	277	6.18	

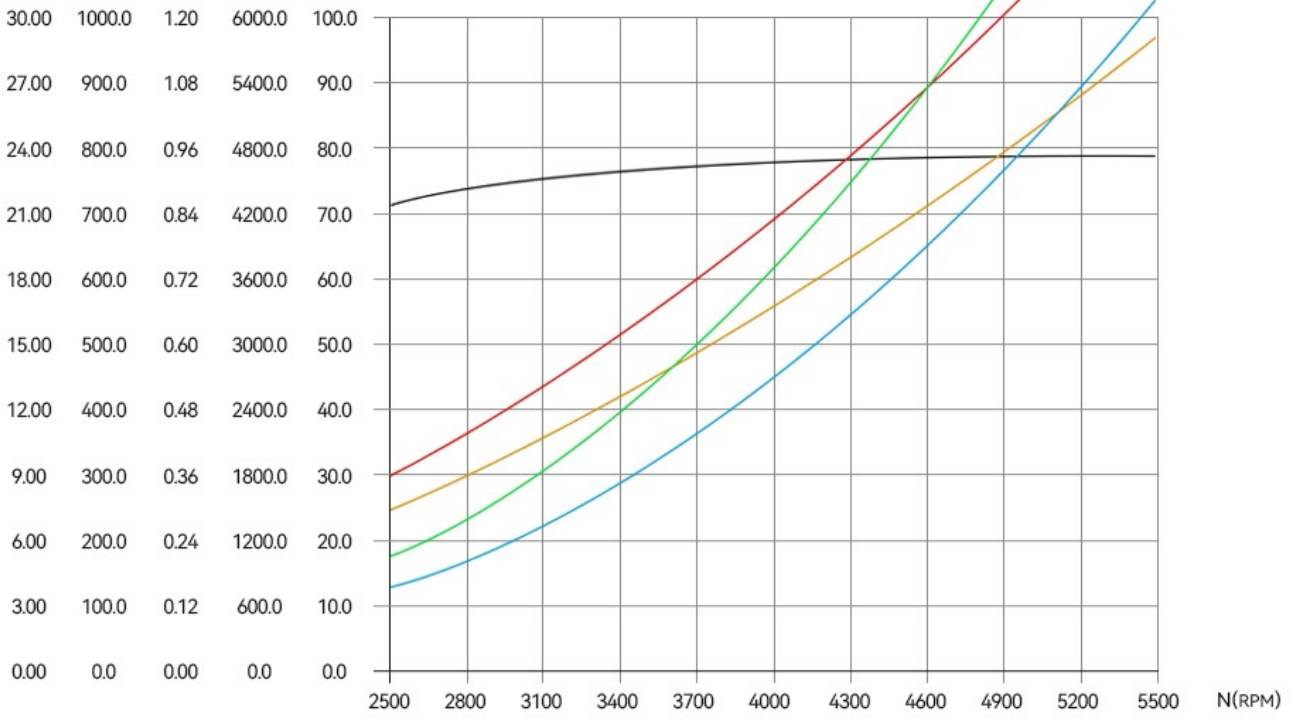
MN501S KV240	LIGPOWER P15*5	54%	48.57	1842	0.32	6.26	6057	304	6.05	78 (Ambient Temperature: 9.2°C)
		56%	48.57	1949	0.34	6.78	6242	329	5.92	
		58%	48.57	2094	0.36	7.41	6411	360	5.81	
		60%	48.57	2176	0.36	7.87	6513	382	5.70	
		62%	48.57	2199	0.38	8.02	6632	389	5.65	
		64%	48.57	2295	0.40	8.52	6804	414	5.55	
		66%	48.56	2421	0.42	9.11	6960	442	5.47	
		68%	48.56	2557	0.44	9.79	7145	475	5.38	
		70%	48.56	2693	0.47	10.54	7317	512	5.26	
		75%	48.56	3000	0.53	12.32	7729	598	5.02	
		80%	48.55	3294	0.57	14.05	8076	682	4.83	
		90%	48.54	3957	0.70	18.31	8840	889	4.45	
100%	48.52	4660	0.81	23.11	9532	1121	4.16			
MN501S KV240	LIGPOWER P22*6.6	40%	24.35	916	0.23	2.87	1914	70	13.09	68 (Ambient Temperature: 9.2°C)
		42%	24.35	999	0.24	3.21	2002	78	12.78	
		44%	24.35	1088	0.26	3.59	2093	87	12.43	
		46%	24.35	1166	0.28	3.92	2176	96	12.20	
		48%	24.35	1246	0.30	4.31	2268	105	11.87	
		50%	24.35	1339	0.33	4.75	2361	116	11.59	
		52%	24.35	1453	0.35	5.28	2485	128	11.30	
		54%	24.35	1566	0.38	5.86	2595	143	10.97	
		56%	24.34	1684	0.41	6.46	2695	157	10.71	
		58%	24.34	1796	0.43	7.07	2797	172	10.44	
		60%	24.34	1900	0.46	7.69	2892	187	10.15	
		62%	24.33	2020	0.49	8.35	2979	203	9.94	
		64%	24.33	2147	0.52	9.16	3078	223	9.63	
		66%	24.33	2273	0.55	9.82	3185	239	9.51	
		68%	24.33	2394	0.57	10.60	3271	258	9.28	
		70%	24.32	2509	0.60	11.32	3358	275	9.11	
		75%	24.32	2823	0.68	13.44	3566	327	8.63	
		80%	24.31	3038	0.75	15.63	3785	380	7.99	
90%	24.29	3454	0.90	20.62	4173	501	6.89			
100%	24.27	4187	1.02	25.21	4478	612	6.84			
		40%	24.28	889	0.12	3.08	2594	75	11.89	
		42%	24.32	968	0.14	3.45	2701	84	11.53	
		44%	24.32	1058	0.16	3.87	2815	94	11.23	
		46%	24.32	1172	0.18	4.39	2949	107	10.98	
		48%	24.31	1271	0.20	4.89	3070	119	10.69	
		50%	24.31	1382	0.22	5.43	3186	132	10.48	

MN501S KV300	LIGPOWER P20*6	52%	24.32	1489	0.25	6.06	3310	147	10.11	86.5 (Ambient Temperature: 9.2°C)
		54%	24.31	1592	0.27	6.71	3438	163	9.76	
		56%	24.31	1712	0.30	7.35	3543	179	9.59	
		58%	24.31	1829	0.32	8.01	3646	195	9.39	
		60%	24.30	1944	0.34	8.68	3742	211	9.21	
		62%	24.30	2078	0.37	9.37	3736	228	9.13	
		64%	24.30	2163	0.40	10.22	3960	248	8.72	
		66%	24.30	2310	0.42	10.99	4058	267	8.65	
		68%	24.29	2424	0.45	11.73	4151	285	8.51	
		70%	24.29	2535	0.47	12.62	4233	306	8.27	
		75%	24.29	2852	0.53	14.75	4517	358	7.96	
		80%	24.28	3068	0.60	17.13	4725	416	7.38	
		90%	24.26	3710	0.73	22.59	5275	548	6.77	
		100%	24.24	4284	0.85	27.75	5603	673	6.37	
MN501S KV300	LIGPOWER P22*6.6	40%	24.34	1204	0.22	4.25	2333	103	11.64	HOT (Ambient Temperature: 9.2°C)
		42%	24.34	1305	0.24	4.72	2422	115	11.36	
		44%	24.33	1421	0.27	5.28	2523	129	11.05	
		46%	24.33	1540	0.30	5.90	2627	144	10.73	
		48%	24.33	1666	0.33	6.62	2754	161	10.34	
		50%	24.33	1824	0.36	7.40	2859	180	10.14	
		52%	24.33	1980	0.40	8.23	2966	200	9.88	
		54%	24.32	2139	0.43	9.11	3276	222	9.65	
		56%	24.32	2266	0.46	9.94	3371	242	9.37	
		58%	24.32	2381	0.50	10.87	3463	264	9.00	
		60%	24.31	2530	0.54	11.83	3544	288	8.80	
		62%	24.31	2645	0.56	12.79	3639	311	8.51	
		64%	24.31	2803	0.60	13.98	3751	340	8.25	
		66%	24.31	2941	0.64	15.08	3835	367	8.02	
		68%	24.30	3008	0.67	16.11	3920	392	7.68	
		70%	24.30	3096	0.71	17.28	4090	420	7.38	
75%	24.33	3507	0.80	20.38	4200	496	7.07			
80%	24.32	4027	0.89	23.68	4478	576	6.99			
90%	24.29	4655	1.06	31.11	4733	756	6.16			
100%	24.27	5277	1.20	37.74	5017	916	5.76			
		40%	24.27	855	0.17	4.08	3190	99	8.63	
		42%	24.27	938	0.19	4.54	3333	110	8.51	
		44%	24.27	1029	0.21	5.02	3471	122	8.44	
		46%	24.26	1103	0.23	5.54	3620	134	8.21	

MN501S KV360	LIGPOWER P17*5.8	48%	24.27	1185	0.25	6.10	3748	148	8.01	57.5 (Ambient Temperature: 9.2°C)
		50%	24.27	1256	0.27	6.66	3882	162	7.77	
		52%	24.30	1346	0.30	7.32	4017	178	7.56	
		54%	24.29	1464	0.32	8.11	4184	197	7.43	
		56%	24.29	1555	0.34	8.74	4314	212	7.32	
		58%	24.29	1664	0.32	9.48	4441	230	7.23	
		60%	24.29	1758	0.34	10.15	4558	247	7.13	
		62%	24.29	1853	0.35	10.91	4670	265	6.99	
		64%	24.28	1959	0.37	11.71	4777	284	6.89	
		66%	24.29	2040	0.39	12.48	4895	303	6.73	
		68%	24.28	2161	0.41	13.49	5041	327	6.60	
		70%	24.28	2245	0.43	14.34	5144	348	6.45	
		75%	24.27	2486	0.47	16.53	5396	401	6.19	
		80%	24.18	2777	0.53	19.42	5703	470	5.91	
		90%	24.20	3333	0.64	25.46	6266	616	5.41	
100%	24.18	3837	0.74	31.46	6732	761	5.05			
MN501S KV360	LIGPOWER P18*6.1	40%	23.94	917	0.06	3.93	2927	94	9.75	86.2 (Ambient Temperature: 9.2°C)
		42%	23.93	989	0.07	4.35	3040	104	9.51	
		44%	23.93	1080	0.09	4.82	3153	115	9.36	
		46%	23.93	1160	0.11	5.32	3261	127	9.12	
		48%	23.94	1310	0.14	6.14	3476	147	8.92	
		50%	23.94	1450	0.17	7.09	3658	170	8.54	
		52%	23.94	1540	0.19	7.76	3786	186	8.29	
		54%	23.94	1657	0.21	8.48	3914	203	8.16	
		56%	23.94	1708	0.24	9.31	4043	223	7.66	
		58%	23.94	1881	0.28	10.36	4178	248	7.58	
		60%	23.94	2003	0.30	11.26	4321	270	7.43	
		62%	23.94	2138	0.32	12.10	4422	290	7.38	
		64%	23.95	2269	0.35	13.13	4540	314	7.22	
		66%	23.98	2400	0.38	14.24	4661	341	7.03	
		68%	23.98	2519	0.41	15.29	4774	367	6.87	
70%	23.98	2671	0.44	16.46	4874	395	6.77			
75%	23.99	2974	0.51	19.34	5153	464	6.41			
80%	23.99	3276	0.58	22.39	5486	537	6.10			
90%	24.00	3959	0.73	29.83	5908	716	5.53			
100%	24.01	4644	0.90	38.43	6393	923	5.03			

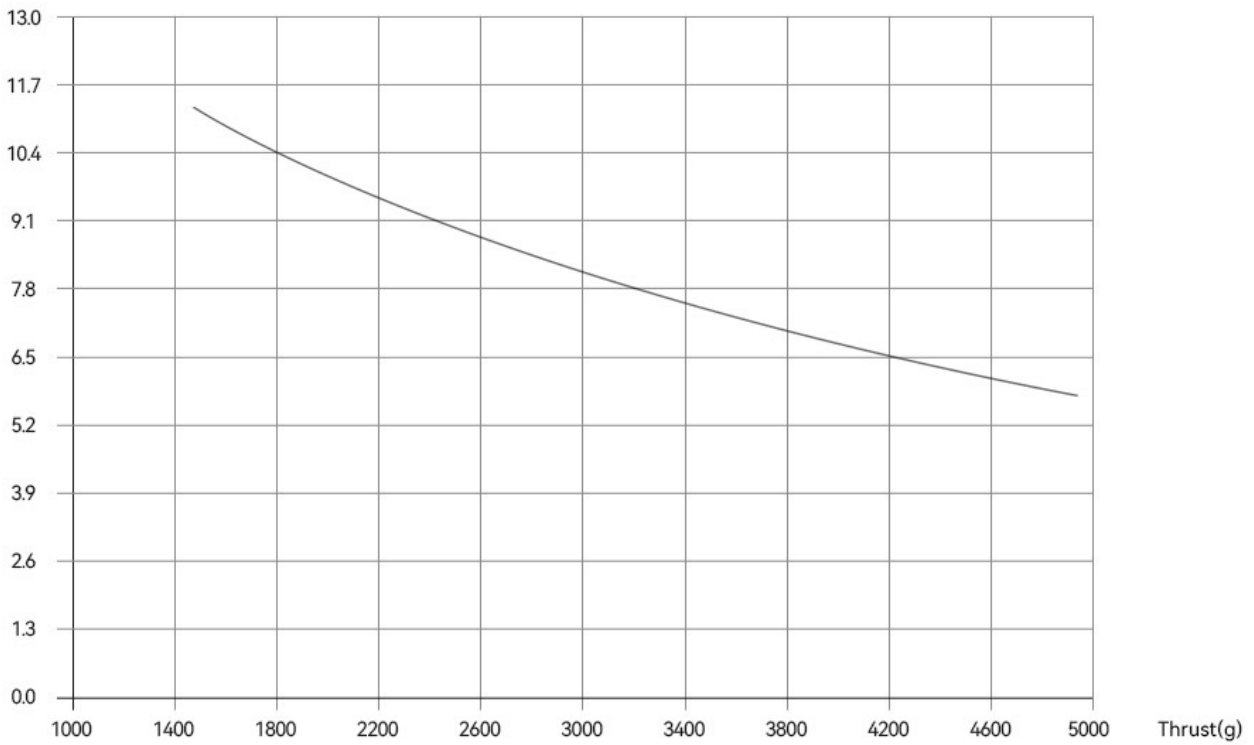
Note: Motor temperature is motor surface temperature at 100% throttle running 10mins.
(Date above based on benchtest are for reference only,comparison with that of other motor types is not recommended.)

I(A) P1(W) T(N*m) F(g) Eff(%)



Thrust, Efficiency, Torque, Power, Current & RPM Graph

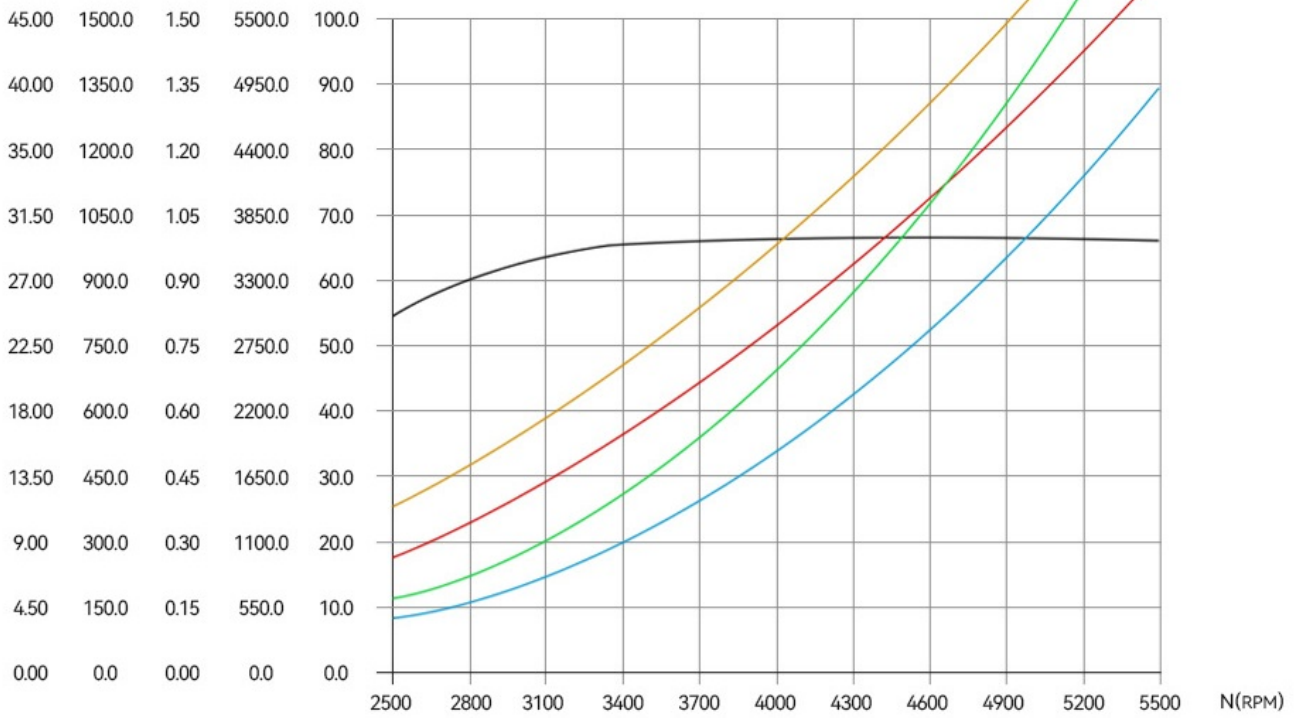
Efficiency (g/W)



Efficiency Graph

■ I(A) ■ P1(W) ■ T(N*m) ■ F(g) ■ Eff(%)

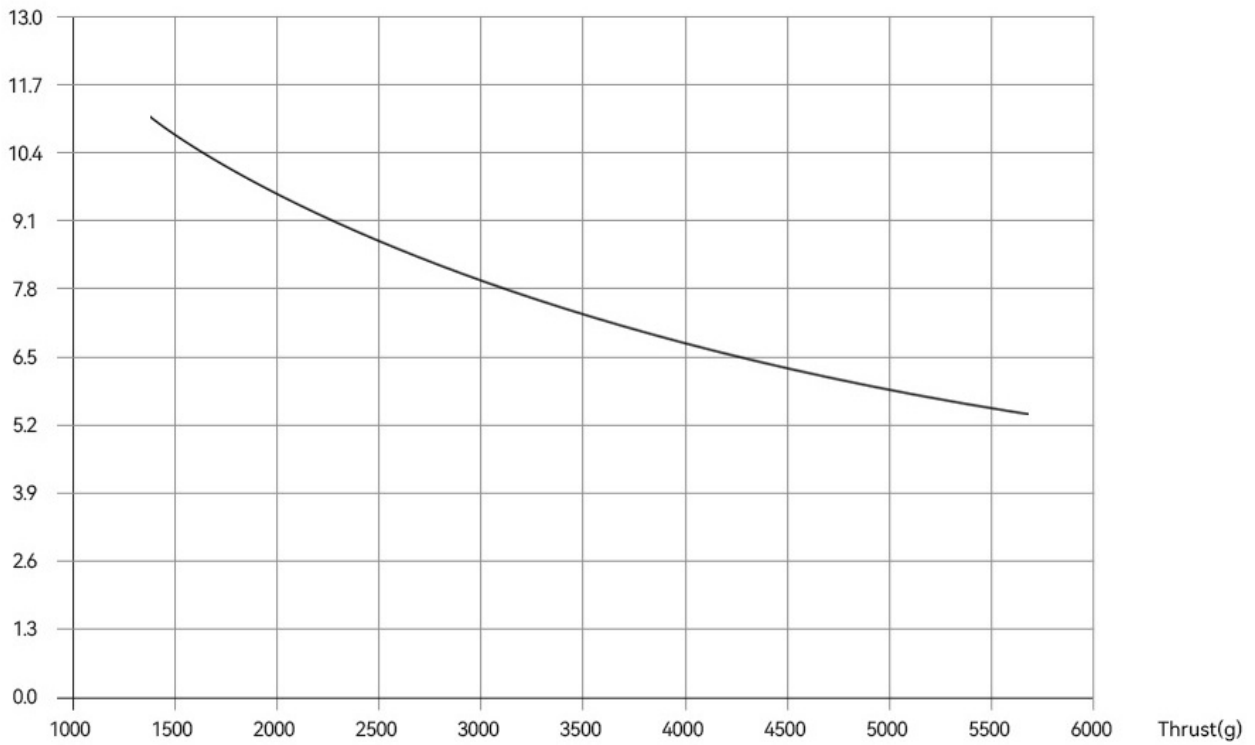
MN501S-KV300 . 22CF . 6S



Thrust, Efficiency, Torque, Power, Current & RPM Graph

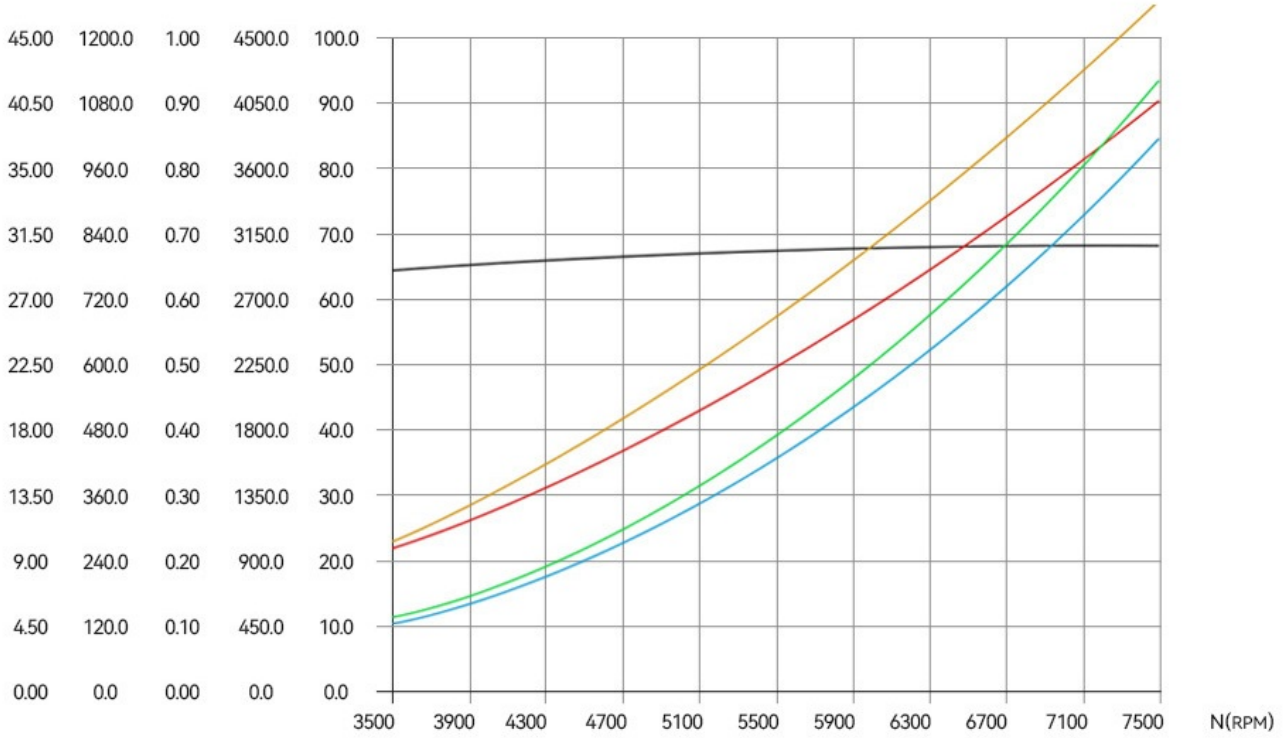
■ Efficiency (g/W)

MN501S-KV300 . 22CF . 6S



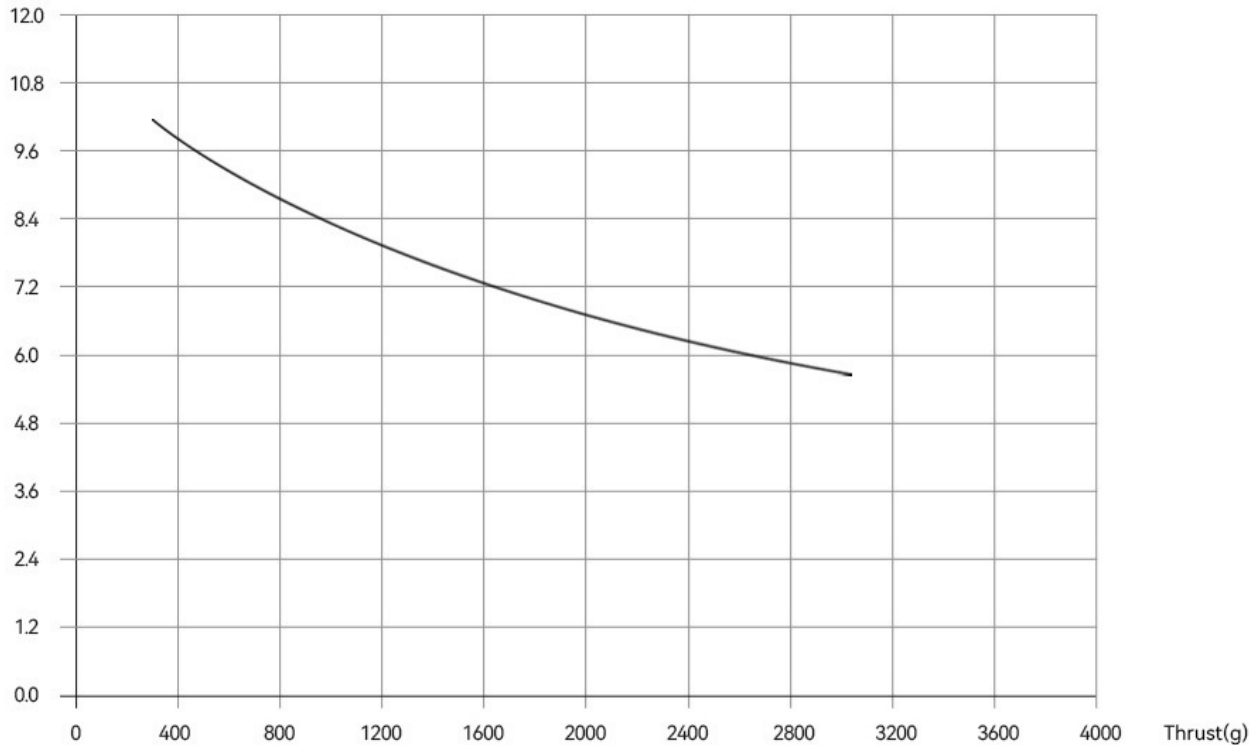
Efficiency Graph

I(A) P1(W) T(N*m) F(g) Eff(%)



Thrust, Efficiency, Torque, Power, Current & RPM Graph

Efficiency (g/W)



Efficiency Graph

Packing List

Before using this product, please check if all the items listed above are included in the packaging. If there are any missing items, please contact our online customer service or leave message to "onsales@ligpower.com" in time.