



Specification

Motor Size	$\varnothing 89 \times 44.4 \text{mm}$	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 : 12mm , OUT : 8mm	Rotor Dynamic Balance Standard	$\leq 5 \text{Mg}$
Bearing	Imported 6901ZZ	Motor Dynamic Balance Standard	$\leq 10 \text{Mg}$
Magnet Level	180°C high temperature resistance	IP	IP45
Lead Cable	14AWG*150mm		
KV	120	Rated Voltage ( Lipo )	6-12S
Idle Current ( 18V )	1.6A	ESC Recommendation	FLAME 80A 12S V2.0
Peak Current ( 180s )	65A	Propeller Recommendation	30-32"
Max.Power ( 180s )	3200W	Motor Weight (incl. Cable)	620g

Internal Resistance	48mΩ	Package Weight	750g
KV	150	Rated Voltage ( Lipo )	6-12S
Idle Current ( 15V )	2.2A	ESC Recommendation	FLAME 80A 12S V2.0 FLAME 100A 14S
Peak Current ( 180s )	75A	Propeller Recommendation	28-29"
Max.Power ( 180s )	3600W	Motor Weight (incl. Cable)	625g
Internal Resistance	32mΩ	Package Weight	750g
KV	170	Rated Voltage ( Lipo )	6-12S
Idle Current ( 15V )	2.6A	ESC Recommendation	FLAME 100A 14S
Peak Current ( 180s )	83A	Propeller Recommendation	26-27"
Max.Power ( 180s )	4000W	Motor Weight (incl. Cable)	625g
Internal Resistance	28mΩ	Package Weight	750g

Test Data

Type	Propeller	Throttle	Voltage (V)	Thrust (g)	Torque (N*m)	Current (A)	RPM	Power (W)	Efficiency (g / W)	Operating Temperature (°C)
MN805S KV120	LIGPOWER G30*10.5	40%	47.99	3321	1.05	6.28	1828	301	11.03	86.3 (Ambient Temperature :0°C)
		42%	47.98	3727	1.15	7.39	1942	355	10.51	
		44%	48.00	4037	1.29	8.26	2030	396	10.19	
		46%	47.97	4399	1.41	9.29	2123	446	9.88	
		48%	47.98	4710	1.51	10.25	2200	492	9.58	
		50%	47.97	5027	1.62	11.25	2279	540	9.32	
		52%	48.00	5321	1.71	12.23	2346	587	9.08	
		54%	48.00	5693	1.82	13.46	2423	646	8.82	
		56%	47.99	6071	1.95	14.75	2500	708	8.59	
		58%	47.97	6341	2.04	15.75	2559	756	8.40	
		60%	47.96	6685	2.14	16.97	2618	814	8.22	
		62%	47.95	7025	2.25	18.32	2688	878	8.00	
		64%	47.96	7472	2.39	20.02	2779	960	7.79	
		66%	47.98	7887	2.56	21.77	2872	1044	7.56	
		68%	47.97	8295	2.68	23.46	2941	1125	7.38	
		70%	47.97	8740	2.82	25.22	3017	1209	7.23	
		75%	47.95	9693	3.22	30.62	3210	1468	6.60	
		80%	47.93	10485	3.60	36.31	3405	1740	6.02	
		90%	47.90	12129	4.39	49.00	3744	2347	5.17	
		100%	47.89	14300	5.22	64.69	4070	3098	4.62	
		40%	47.92	3758	1.12	7.55	2348	362	10.39	

MN805S KV150	LIGPOWER G28*9.2	42%	47.94	3948	1.18	8.17	2419	391	10.08	96.3 (Ambient Temperature :0°C)
		44%	47.96	4275	1.27	9.08	2518	436	9.82	
		46%	47.96	4567	1.37	9.96	2600	478	9.56	
		48%	48.00	4882	1.45	10.90	2687	523	9.33	
		50%	47.97	5182	1.55	11.87	2768	570	9.10	
		52%	47.95	5582	1.66	13.10	2862	628	8.89	
		54%	47.98	6130	1.81	14.79	2984	710	8.63	
		56%	47.95	6586	1.98	16.46	3088	789	8.34	
		58%	47.91	7137	2.13	18.23	3224	873	8.17	
		60%	47.91	7587	2.25	19.80	3317	949	7.99	
		62%	47.91	8040	2.39	21.59	3420	1034	7.77	
		64%	47.93	8547	2.55	23.47	3516	1125	7.59	
		66%	47.93	9093	2.70	25.68	3622	1230	7.39	
		68%	47.92	9481	2.84	27.61	3707	1323	7.16	
		70%	47.92	9918	2.99	29.71	3783	1424	6.97	
		75%	47.92	10731	3.36	35.56	4023	1704	6.30	
		80%	47.92	11528	3.79	42.37	4228	2030	5.68	
		90%	47.90	13778	4.63	57.81	4633	2769	4.97	
		100%	47.80	16028	5.42	75.17	5013	3593	4.46	
MN805S KV170	LIGPOWER G26*8.5	40%	48.04	3608	0.95	7.83	2669	376	9.58	87.5 (Ambient Temperature :0°C)
		42%	48.04	3860	1.02	8.63	2764	415	9.30	
		44%	48.05	4202	1.11	9.64	2871	463	9.07	
		46%	48.05	4518	1.19	10.66	2972	512	8.82	
		48%	48.04	4900	1.31	11.90	3112	572	8.57	
		50%	48.04	5198	1.41	13.06	3220	627	8.28	
		52%	47.99	5697	1.55	14.70	3359	705	8.07	
		54%	47.98	6174	1.68	16.34	3487	784	7.87	
		56%	47.99	6691	1.84	18.36	3635	881	7.59	
		58%	47.97	7083	1.97	19.99	3743	959	7.38	
		60%	47.96	7541	2.10	21.78	3846	1045	7.21	
		62%	47.96	8023	2.24	23.77	3969	1140	7.04	
		64%	47.96	8563	2.38	25.84	4079	1239	6.91	
		66%	47.95	9085	2.54	28.15	4198	1350	6.73	
		68%	47.94	9480	2.69	30.78	4325	1475	6.43	
70%	47.94	9871	2.82	32.73	4414	1569	6.29			
75%	47.91	10724	3.16	39.06	4661	1871	5.73			

80%	47.93	11590	3.52	45.76	4903	2193	5.28
90%	47.88	13542	4.30	61.64	5342	2951	4.59
100%	47.84	15993	5.07	80.37	5758	3845	4.16

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

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](mailto:onsales@ligpower.com)" in time.