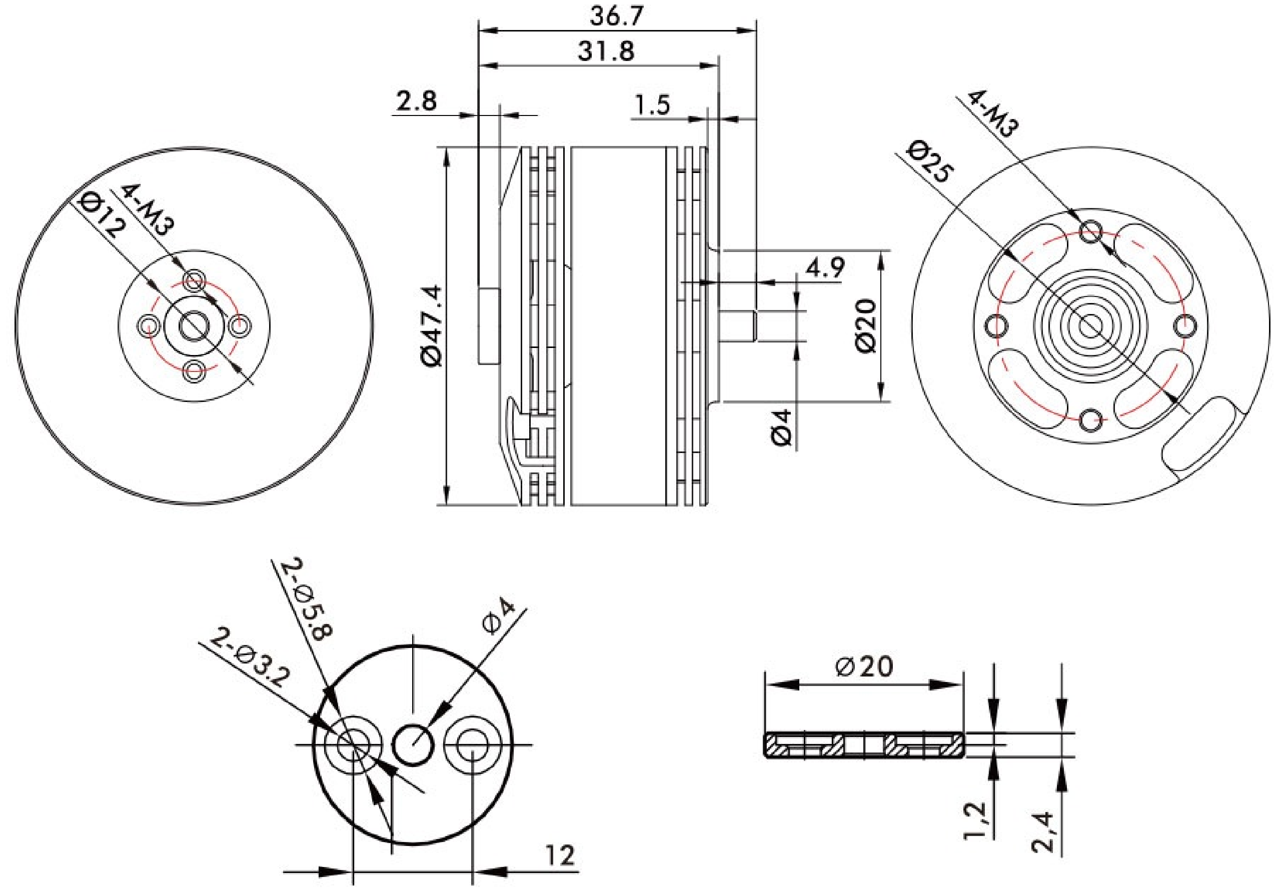
Technical Drawing



Specification

Motor Size	Φ47.4*36.7mm	Stator	Imported silicon steel sheet; Anti-rust treatment;180°C high temperature-resisting coatings
Configuration	12N14P	Shaft Diameter	IN：6mm OUT：4
Bearing	686ZZ/696ZZ	Magnet Level	N45SH
Lead Cable	16AWG*150mm	Copper Wire	220°C high temperature resistance: Level C
Coil Insulation Test	500V/5s	Centrifugal Cooling Design	YES
Rotor Dynamic Balance Standard	≤5Mg		

KV	300	Rated Voltage (Lipo)	6S
ldle Current(10V)	0.9A	Propeller Recommendation	P17-18"/T16*8"
Peak Current (180s)	23A	Motor Weight (Incl. Cable)	152g
Max.Power (180s)	535W	Package Weight	255g
Internal Resistance	135mΩ		
KV	340	Rated Voltage (Lipo)	6S
ldle Current(10V)	0.9A	Propeller Recommendation	P17-18"/T16*8"
Peak Current (180s)	30A	Motor Weight (Incl. Cable)	152g
Max.Power (180s)	700W	Package Weight	255g

Internal Resistance	112mΩ		

KV	400	Rated Voltage (Lipo)	6S
ldle Current(10V)	1.0A	Propeller Recommendation	P15-16"
Peak Current (180s)	32A	Motor Weight (Incl. Cable)	152g
Max.Power (180s)	770W	Package Weight	255g
Internal Resistance	85mΩ		

Fixed wing Recommendation			
KV	MN4110 KV300	Propeller	T16*8"
ESC	AT 75A 6S	Battery(Lipo) /Voltage	6S(4.2V/pc)/22-25V
Thrust/motor(kg)	0.8kg	MTOW (1 motor/2 motors) (kg)	3/6kg
KV	MN4110 KV340	Propeller	T16*8"
ESC	AT 75A 6S	Battery(Lipo) /Voltage	6S(4.2V/pc)/22-25V
Thrust/motor(kg)	1.2kg	MTOW (1 motor/2 motors) (kg)	4/8kg

Multi-rotor / VTOL Recommendation			
KV	MN4110 KV300	Propeller	P17*5.8"
ESC	FLAME 60A 12S V2.0	Battery(Lipo) /Voltage	6S（4.2V/pc）/ 22-25V
Thrust/motor(kg)	1.0kg	MTOW (1 motor/2 motors) (kg)	4.0kg
KV	MN4110 KV300	Propeller	P18*6.1"
ESC	FLAME 60A 12S V2.0	Battery(Lipo) /Voltage	6S（4.2V/pc）/ 22-25V
Thrust/motor(kg)	1.25kg	MTOW (1 motor/2 motors) (kg)	5.0kg
KV	MN4110 KV340	Propeller	P17*5.8"
ESC	FLAME 60A 12S V2.0	Battery(Lipo) /Voltage	6S（4.2V/pc）/ 22-25V
Thrust/motor(kg)	1.25kg	MTOW (1 motor/2 motors) (kg)	5.0kg
KV	MN4110 KV340	Propeller	P18*6.1"
ESC	FLAME 60A 12S V2.0	Battery(Lipo) /Voltage	6S（4.2V/pc）/ 22-25V
Thrust/motor(kg)	1.5kg	MTOW (1 motor/2 motors) (kg)	6.0kg
KV	MN4110 KV400	Propeller	P15*5"
ESC	FLAME 60A 12S V2.0	Battery(Lipo) /Voltage	6S（4.2V/pc）/ 22-25V
Thrust/motor(kg)	1.0kg	MTOW (1 motor/2 motors) (kg)	4.0kg
KV	MN4110 KV400	Propeller	P16*5.4"
ESC	FLAME 60A 12S V2.0	Battery(Lipo) /Voltage	6S（4.2V/pc）/ 22-25V
Thrust/motor(kg)	1.25kg	MTOW (1 motor/2 motors) (kg)	5.0kg
Note: For coaxial configurations, please consider a thrust loss of 25%			

Test Data

Type	Propeller	Throttle	Voltage (V)	Thrust (g)	Torque (N*m)	Current (A)	RPM	Power (W)	Efficiency (g/W)	Operating Temperature (°C)
		40%	23.83	631	0.13	2.14	2824	51	12.37	
		42%	23.80	716	0.15	2.57	3002	61	11.72	

MN4110 KV300	T16*8	44%	23.79	771	0.16	2.86	3102	68	11.34	76 (Ambient Temperature: 15°C)
		46%	23.77	825	0.17	3.13	3203	74	11.09	
		48%	23.76	873	0.18	3.39	3289	81	10.83	
		50%	23.74	923	0.19	3.71	3393	88	10.48	
		52%	23.73	976	0.20	4.01	3487	95	10.25	
		54%	23.71	1032	0.21	4.35	3588	103	10.00	
		56%	23.69	1094	0.23	4.72	3675	112	9.79	
		58%	23.68	1146	0.24	5.02	3751	119	9.64	
		60%	23.66	1210	0.25	5.44	3855	129	9.39	
		62%	23.64	1273	0.27	5.91	3950	140	9.11	
		64%	23.62	1334	0.28	6.30	4035	149	8.97	
		66%	23.60	1398	0.29	6.76	4127	160	8.76	
		68%	23.58	1464	0.31	7.28	4225	172	8.53	
		70%	23.56	1525	0.32	7.74	4304	182	8.36	
		72%	23.53	1596	0.33	8.27	4393	195	8.20	
		74%	23.51	1654	0.34	8.75	4472	206	8.04	
		76%	23.48	1722	0.36	9.35	4569	219	7.85	
		78%	23.46	1803	0.38	9.99	4656	234	7.69	
		80%	23.43	1868	0.39	10.61	4736	249	7.52	
		90%	23.31	2226	0.47	13.92	5144	324	6.86	
		100%	23.29	2683	0.56	18.89	5628	440	6.10	
MN4110 KV300	P17*5.8	40%	23.77	690	0.14	2.23	2809	53	13.02	77 (Ambient Temperature: 15°C)
		42%	23.74	788	0.16	2.68	2983	64	12.37	
		44%	23.72	841	0.17	2.95	3079	70	12.03	
		46%	23.71	904	0.18	3.26	3184	77	11.69	
		48%	23.69	955	0.19	3.52	3268	83	11.46	
		50%	23.67	1018	0.20	3.84	3367	91	11.20	
		52%	23.65	1079	0.22	4.18	3462	99	10.92	
		54%	23.64	1141	0.23	4.54	3562	107	10.64	
		56%	23.62	1213	0.24	4.96	3659	117	10.36	
		58%	23.61	1264	0.25	5.24	3730	124	10.21	
		60%	23.59	1333	0.26	5.66	3822	133	9.99	
		62%	23.57	1408	0.28	6.12	3922	144	9.76	
		64%	23.55	1474	0.29	6.53	4011	154	9.58	
		66%	23.53	1547	0.31	7.03	4103	165	9.36	
		68%	23.51	1616	0.32	7.50	4191	176	9.16	
		70%	23.49	1688	0.33	8.06	4288	189	8.92	
		72%	23.48	1761	0.34	8.51	4368	200	8.82	
		74%	23.46	1824	0.36	9.06	4453	213	8.58	

		76%	23.43	1909	0.38	9.72	4543	228	8.39	
		78%	23.41	1973	0.39	10.29	4630	241	8.19	
		80%	23.40	2049	0.40	10.86	4717	254	8.06	
		90%	23.32	2461	0.48	14.43	5120	337	7.31	
		100%	23.23	2947	0.58	19.35	5587	449	6.56	
MN4110 KV300	P18*6.1	40%	23.76	850	0.18	2.79	2744	66	12.82	81 (Ambient Temperature: 15°C)
		42%	23.74	919	0.20	3.13	2836	74	12.37	
		44%	23.71	1026	0.22	3.71	2996	88	11.67	
		46%	23.69	1100	0.24	4.08	3090	97	11.38	
		48%	23.67	1163	0.25	4.46	3188	106	11.01	
		50%	23.65	1225	0.26	4.78	3262	113	10.85	
		52%	23.62	1298	0.27	5.23	3356	124	10.51	
		54%	23.61	1369	0.29	5.66	3447	134	10.23	
		56%	23.58	1448	0.30	6.16	3536	145	9.97	
		58%	23.55	1517	0.32	6.66	3624	157	9.67	
		60%	23.54	1566	0.33	6.98	3686	164	9.53	
		62%	23.51	1649	0.35	7.56	3773	178	9.28	
		64%	23.48	1723	0.36	8.15	3860	191	9.01	
		66%	23.46	1806	0.38	8.75	3946	205	8.80	
		68%	23.48	1885	0.40	9.32	4028	219	8.62	
		70%	23.48	1965	0.41	9.95	4118	234	8.41	
		72%	23.47	2049	0.43	10.64	4196	250	8.21	
		74%	23.46	2125	0.44	11.27	4279	264	8.04	
		76%	23.44	2206	0.46	11.97	4347	280	7.86	
		78%	23.43	2283	0.48	12.68	4427	297	7.68	
		80%	23.41	2364	0.49	13.38	4509	313	7.55	
		90%	23.29	2776	0.58	17.38	4855	405	6.86	
		100%	23.18	3224	0.68	23.10	5261	535	6.02	
		40%	23.81	827	0.17	3.18	3192	76	10.92	
		42%	23.79	879	0.18	3.49	3301	83	10.57	
		44%	23.78	944	0.20	3.85	3409	92	10.30	
		46%	23.76	1011	0.21	4.25	3510	101	10.01	
		48%	23.74	1084	0.23	4.72	3623	112	9.67	
		50%	23.73	1124	0.24	4.98	3710	118	9.51	
		52%	23.71	1192	0.25	5.45	3816	129	9.22	
		54%	23.70	1267	0.27	5.94	3921	141	9.00	
		56%	23.68	1342	0.28	6.46	4021	153	8.77	
		58%	23.67	1412	0.30	6.95	4127	165	8.58	

MN4110 KV340	T16*8	60%	23.66	1491	0.31	7.58	4237	179	8.31	90 (Ambient Temperature: 15°C)
		62%	23.65	1553	0.32	8.02	4325	190	8.19	
		64%	23.63	1635	0.34	8.71	4424	206	7.94	
		66%	23.62	1703	0.36	9.30	4530	220	7.75	
		68%	23.61	1795	0.38	10.06	4625	238	7.56	
		70%	23.60	1859	0.39	10.66	4725	252	7.39	
		72%	23.59	1934	0.40	11.37	4822	268	7.21	
		74%	23.56	2024	0.42	12.16	4915	286	7.07	
		76%	23.53	2102	0.44	12.92	5004	304	6.91	
		78%	23.52	2180	0.45	13.71	5099	323	6.76	
		80%	23.51	2255	0.47	14.49	5181	341	6.62	
		90%	23.43	2671	0.56	19.15	5593	449	5.95	
		100%	23.41	3161	0.66	25.73	6082	602	5.25	
MN4110 KV340	P17*5.8	40%	23.78	893	0.18	3.28	3181	78	11.44	81 (Ambient Temperature: 15°C)
		42%	23.76	957	0.19	3.60	3280	86	11.18	
		44%	23.74	1026	0.21	3.98	3391	95	10.85	
		46%	23.72	1100	0.22	4.39	3500	104	10.57	
		48%	23.70	1176	0.24	4.86	3610	115	10.21	
		50%	23.69	1235	0.25	5.16	3693	122	10.11	
		52%	23.67	1308	0.26	5.61	3799	133	9.84	
		54%	23.65	1383	0.27	6.09	3903	144	9.61	
		56%	23.63	1457	0.29	6.57	4001	155	9.39	
		58%	23.60	1543	0.30	7.16	4107	169	9.13	
		60%	23.57	1626	0.32	7.80	4209	184	8.84	
		62%	23.56	1696	0.33	8.24	4288	194	8.74	
		64%	23.53	1771	0.34	8.90	4400	209	8.46	
		66%	23.52	1840	0.36	9.45	4484	222	8.28	
		68%	23.48	1947	0.38	10.22	4595	240	8.12	
		70%	23.46	2019	0.40	10.87	4689	255	7.92	
		72%	23.42	2108	0.41	11.64	4784	273	7.73	
		74%	23.39	2202	0.43	12.41	4872	290	7.59	
		76%	23.36	2293	0.45	13.19	4958	308	7.44	
		78%	23.33	2370	0.46	13.99	5048	326	7.26	
		80%	23.31	2463	0.48	14.81	5134	345	7.14	
		90%	23.26	2905	0.57	19.34	5546	450	6.46	
		100%	23.10	3423	0.67	25.84	5989	597	5.73	
		40%	23.73	1079	0.23	4.07	3079	97	11.15	
		42%	23.71	1162	0.25	4.54	3187	108	10.80	
		44%	23.69	1232	0.26	4.95	3282	117	10.49	

MN4110 KV340	P18*6.1	46%	23.67	1314	0.28	5.47	3382	129	10.15	102 (Ambient Temperature: 15°C)
		48%	23.65	1390	0.29	5.96	3478	141	9.87	
		50%	23.63	1477	0.31	6.55	3578	155	9.55	
		52%	23.60	1553	0.33	7.11	3675	168	9.25	
		54%	23.59	1622	0.34	7.54	3748	178	9.11	
		56%	23.56	1706	0.36	8.22	3848	194	8.81	
		58%	23.53	1786	0.38	8.82	3944	208	8.60	
		60%	23.51	1862	0.39	9.46	4030	222	8.38	
		62%	23.47	1958	0.41	10.21	4116	240	8.17	
		64%	23.44	2035	0.43	10.95	4205	257	7.93	
		66%	23.41	2123	0.45	11.69	4287	274	7.76	
		68%	23.38	2216	0.47	12.46	4365	291	7.61	
		70%	23.35	2300	0.48	13.24	4442	309	7.44	
		72%	23.33	2394	0.50	14.16	4529	330	7.25	
		74%	23.31	2483	0.52	15.03	4612	350	7.09	
		76%	23.29	2564	0.54	15.95	4687	371	6.90	
		78%	23.27	2659	0.56	16.91	4763	393	6.76	
		80%	23.25	2745	0.58	17.85	4835	415	6.62	
		90%	23.20	3187	0.67	23.17	5174	537	5.93	
		100%	23.04	3634	0.76	30.73	5509	708	5.13	
MN4110 KV400	P15*5	40%	23.86	786	0.14	3.07	3748	73	10.73	74 (Ambient Temperature: 15°C)
		42%	23.85	845	0.15	3.39	3884	81	10.45	
		44%	23.85	901	0.17	3.69	4015	88	10.23	
		46%	23.84	962	0.18	4.08	4149	97	9.90	
		48%	23.82	1034	0.19	4.54	4289	108	9.56	
		50%	23.82	1091	0.20	4.85	4409	116	9.45	
		52%	23.80	1163	0.21	5.31	4547	126	9.20	
		54%	23.79	1235	0.22	5.79	4680	138	8.96	
		56%	23.78	1309	0.23	6.27	4817	149	8.78	
		58%	23.76	1381	0.25	6.79	4948	161	8.56	
		60%	23.75	1472	0.26	7.42	5083	176	8.35	
		62%	23.74	1535	0.28	7.92	5197	188	8.17	
		64%	23.72	1611	0.29	8.53	5330	202	7.96	
		66%	23.71	1688	0.30	9.15	5461	217	7.78	
		68%	23.69	1760	0.31	9.79	5585	232	7.59	
		70%	23.68	1847	0.33	10.48	5711	248	7.44	
		72%	23.66	1929	0.34	11.20	5831	265	7.28	
		74%	23.65	2012	0.36	11.94	5948	282	7.12	

		76%	23.63	2101	0.38	12.75	6067	301	6.97	
		78%	23.61	2220	0.40	14.01	6245	331	6.71	
		80%	23.60	2323	0.42	14.90	6362	352	6.61	
		90%	23.54	2746	0.49	19.44	6904	458	6.00	
		100%	23.43	3293	0.59	26.14	7529	612	5.38	
MN4110 KV400	P16*5.4	40%	24.06	979	0.19	3.89	3695	94	10.45	103 (Ambient Temperature: 15°C)
		42%	24.05	1019	0.19	4.13	3833	99	10.25	
		44%	24.03	1089	0.20	4.56	3959	110	9.93	
		46%	24.02	1164	0.22	5.04	4087	121	9.61	
		48%	24.01	1248	0.24	5.54	4217	133	9.39	
		50%	24.00	1324	0.25	5.99	4325	144	9.20	
		52%	23.98	1410	0.26	6.57	4456	158	8.95	
		54%	23.97	1509	0.28	7.23	4594	173	8.70	
		56%	23.95	1592	0.30	7.79	4713	187	8.53	
		58%	23.93	1685	0.31	8.53	4839	204	8.26	
		60%	23.92	1789	0.33	9.29	4956	222	8.06	
		62%	23.90	1879	0.35	10.02	5082	239	7.84	
		64%	23.89	1985	0.37	10.78	5180	257	7.71	
		66%	23.87	2084	0.39	11.63	5303	277	7.51	
		68%	23.86	2156	0.40	12.33	5432	294	7.33	
		70%	23.84	2242	0.42	13.17	5547	314	7.14	
		72%	23.83	2326	0.43	14.05	5665	335	6.95	
		74%	23.82	2437	0.45	15.01	5766	358	6.81	
		76%	23.80	2533	0.47	16.03	5873	382	6.64	
		78%	23.79	2621	0.49	16.89	5988	402	6.52	
		80%	23.79	2707	0.50	17.86	6101	425	6.37	
		90%	23.69	3253	0.60	24.25	6603	574	5.66	
		100%	23.57	3807	0.71	32.71	7128	771	4.94	

Note: Motor temperature is motor surface temperature at 100% throttle running 10 mins.
(Date above based on benchtest are for reference only. Comparion 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 " onlinesales@ligpower.com " in time.