

## C6225 电机技术参数

### 基础参数 Specification I

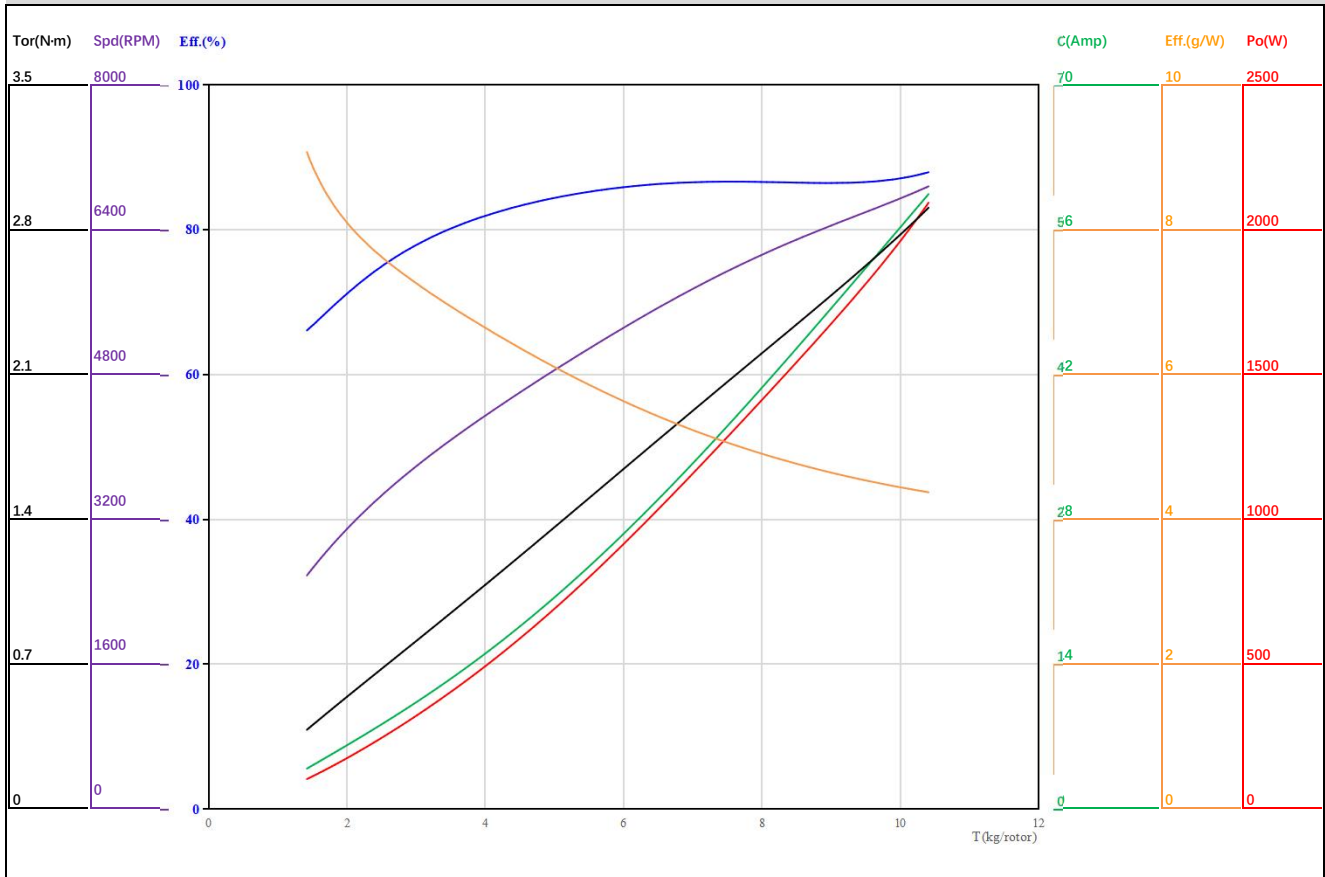
产品型号 Model	C6225-200KV	防尘防水等级 Protection level	IPX5
电机尺寸 Motor size	Φ69*H50.9 mm	槽极数 Slot & Pole	24槽28极 24N28P
定子尺寸 Stator size	Φ62*25 mm	电机整体动平衡标准 Dynamic balance	≤15 mg
定子工艺 Stator process	高品质硅钢片, 防锈处理, 耐180°C高温涂覆 High standard silicon steel sheet, rust proof, 180°C high temperature resistance paint-coat	轴承型号 Bearing	高品质防水轴承 Water proof bearing
漆包线等级 Enamelled wire	220 °C	出轴轴径 Motor axle diameter	Φ10 mm
磁铁等级 Magnet	160 °C	桨叶安装孔尺寸 Props mounting dimensions	4×M3@D20 mm, 4×M4@D23 mm
线圈绝缘测试 Isolation test	500V交流耐压测试 500V AC high voltage resistance test	电机安装孔尺寸 Motor mounting dimensions	4*M4@D36 mm
额定输出功率 (最大持续功率) Rated output power (Max continuous)	580 W		

### 技术参数 Specification II

KV值 KV	200 KV
额定电压 Battery (LiPo)	LiPo-12S (48V)
空载电流 No-load current	3.4 A
最大电流/A (非密闭环境温度 ≤25 °C) Maximum current (non-hermetic ambient temperature ≤ 25°C)	86 A
额定拉力 Rated thrust	4.5 kg (48V@21×10)
最大拉力 Max thrust	14.8 kg (48V@21×10)
相间内阻 Resistance	23.5 mΩ
出线规格 Wire size	漆包线直出 Enameled wire direct lead-out
三相线出线长度 Three-phase wires length	100 mm
磁编出线长度 Magnetic encoder cable length	130 mm
电机重量 (含线) Weight (With cable)	530 g

## 200KV+20x10 (40V) 负载性能参数 Load Performance Parameters

曲线图 Graph



拉力数据表 Thrust Test Data

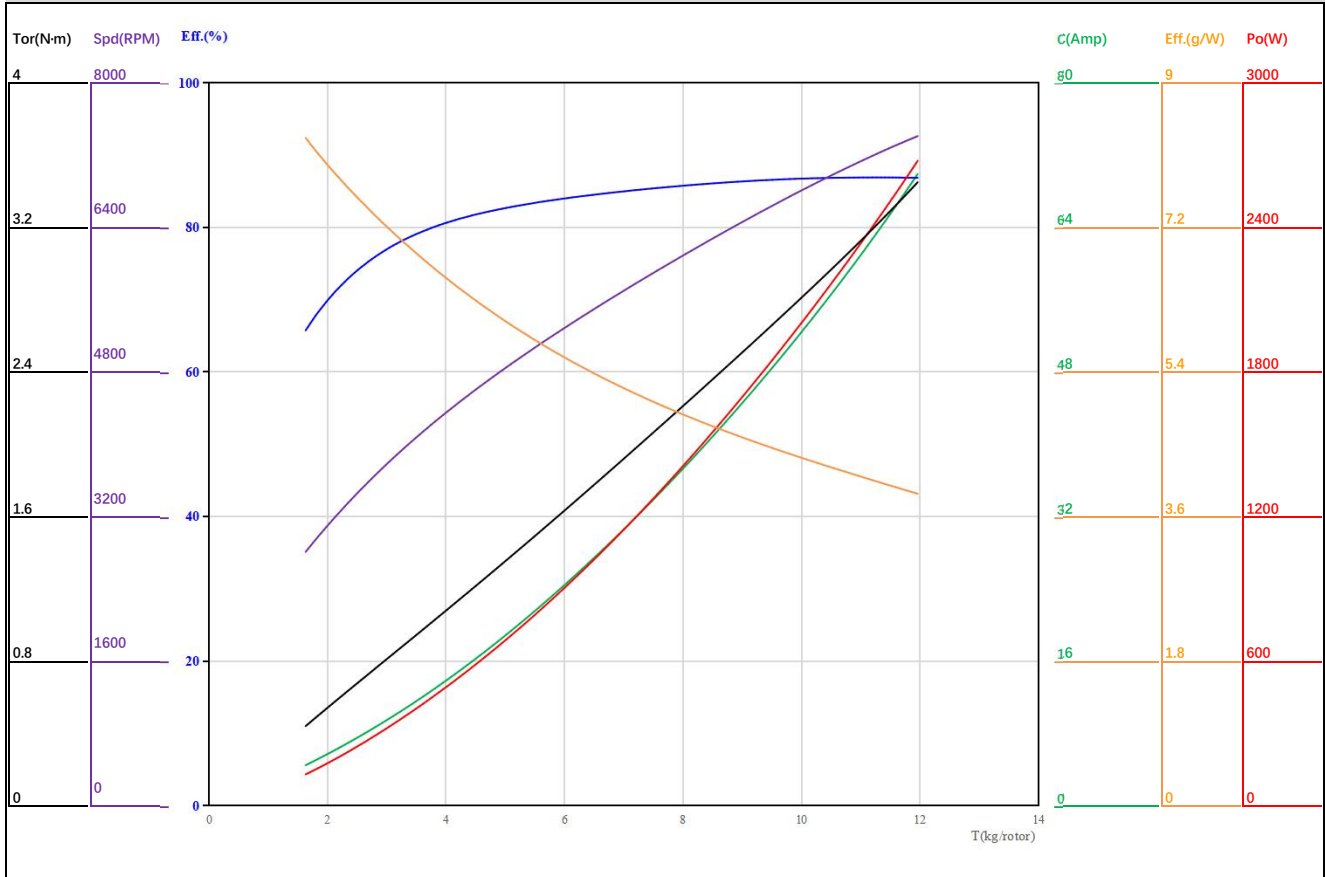
Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power Input(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque (N-m) 扭矩	Power Output(W) 输出功率	Motor Temperature(°C) 电机温度
40V (12S LiPo)	20x10	35%	1783	5.3	212.9	2914	8.4	0.48	147.5	/
		37%	1957	6.0	240.2	3059	8.1	0.53	170.0	
		39%	2142	6.7	269.7	3205	7.9	0.58	195.0	
		42%	2438	7.9	317.6	3420	7.7	0.66	236.6	
		45%	2750	9.2	369.9	3629	7.4	0.74	282.9	
		48%	3074	10.6	426.4	3830	7.2	0.83	333.6	
		51%	3411	12.2	487.7	4026	7.0	0.92	389.1	
		54%	3760	13.8	554.3	4218	6.8	1.02	449.6	
		57%	4123	15.7	627.2	4409	6.6	1.12	516.0	
		60%	4502	17.7	707.4	4602	6.4	1.22	589.2	
		63%	4900	19.9	796.1	4799	6.2	1.33	670.2	
		66%	5318	22.3	894.5	5000	5.9	1.45	759.8	
		69%	5759	25.1	1003.6	5206	5.7	1.58	858.8	
		72%	6222	28.1	1123.9	5415	5.5	1.71	967.3	
		75%	6707	31.3	1255.6	5624	5.3	1.84	1084.9	
		78%	7210	34.9	1397.7	5829	5.2	1.98	1210.4	
		81%	7725	38.7	1548.5	6024	5.0	2.13	1341.3	
84%	8244	42.6	1704.6	6205	4.8	2.27	1475.2			
87%	8756	46.5	1861.6	6369	4.7	2.41	1609.2			
90%	9244	50.3	2013.4	6517	4.6	2.55	1740.9			
100%	10410	59.4	2380.1	6878	4.4	2.91	2092.8			

\*以上数据为好盈实验室于室温25°C、海平面高度，变化油门输入调节测得，仅供参考。

\*The above data was measured by HOBBYWING Laboratory at room temperature 25°C, at sea level, with varying throttle input, for reference only.

## 200KV+20x10 (44V) 负载性能参数 Load Performance Parameters

曲线图 Graph



拉力数据表 Thrust Test Data

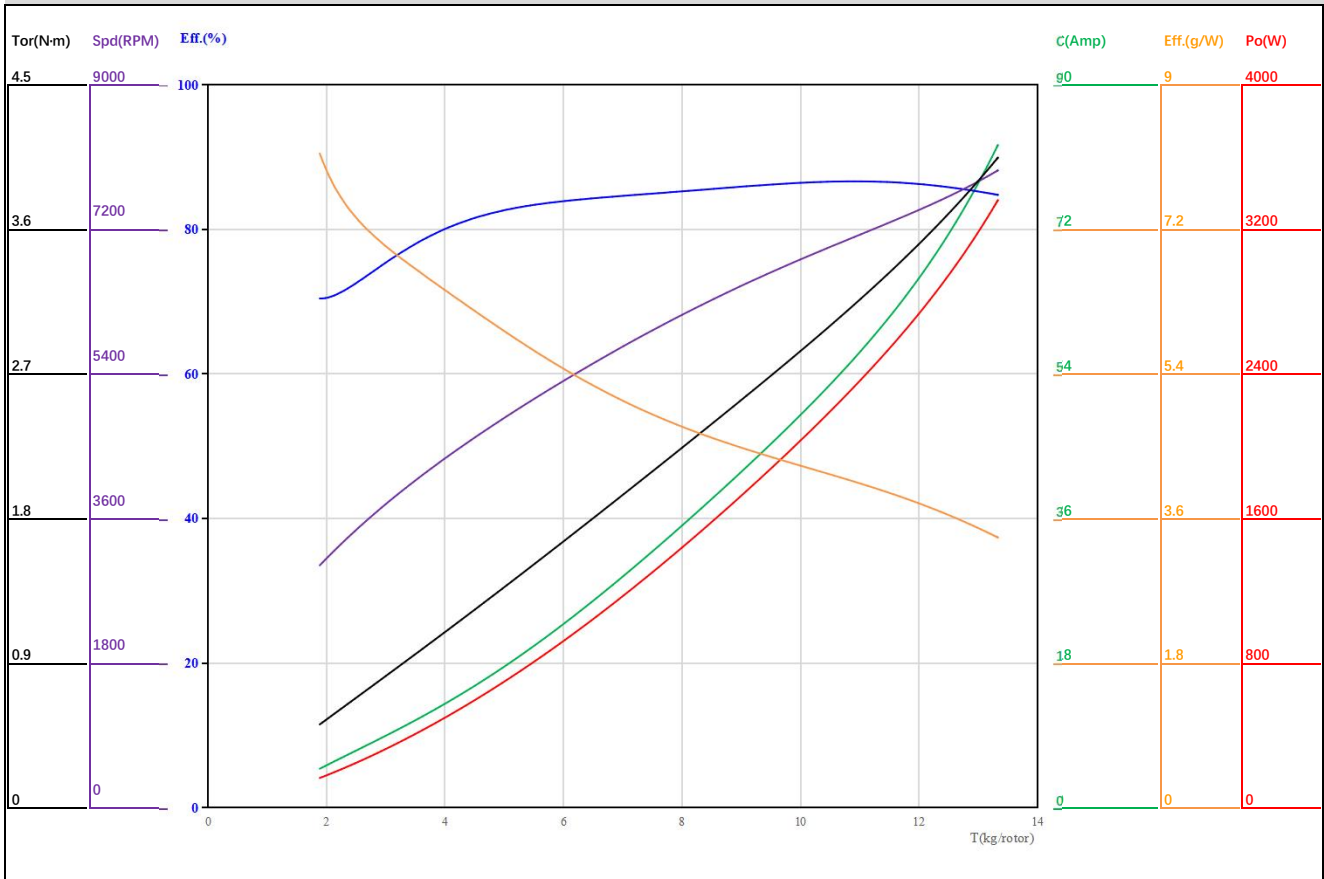
Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power Input(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque (N-m) 扭矩	Power Output(W) 输出功率	Motor Temperature(°C) 电机温度
44V (12S LiPo)	20x10	35%	2084	6.0	263.6	3158	7.9	0.56	186.2	/
		37%	2293	6.7	296.4	3309	7.7	0.62	214.7	
		39%	2514	7.5	332.4	3463	7.6	0.68	246.3	
		42%	2864	8.9	392.1	3692	7.3	0.77	298.9	
		45%	3233	10.4	458.6	3919	7.1	0.87	357.8	
		48%	3618	12.1	532.0	4140	6.8	0.98	422.7	
		51%	4019	13.9	612.7	4357	6.6	1.08	494.1	
		54%	4436	15.9	701.5	4570	6.3	1.20	572.6	
		57%	4872	18.1	799.2	4780	6.1	1.32	658.8	
		60%	5328	20.6	906.7	4990	5.9	1.44	753.8	
		63%	5805	23.3	1025.3	5201	5.7	1.58	858.7	
		66%	6306	26.2	1155.9	5414	5.5	1.72	974.5	
		69%	6831	29.5	1299.4	5629	5.3	1.87	1102.0	
		72%	7378	33.0	1456.3	5847	5.1	2.03	1242.0	
		75%	7946	36.9	1626.5	6066	4.9	2.19	1393.9	
		78%	8528	41.0	1809.3	6285	4.7	2.37	1557.4	
		81%	9118	45.4	2002.8	6500	4.6	2.54	1730.4	
84%	9703	50.0	2204.1	6706	4.4	2.72	1909.5			
87%	10270	54.6	2408.2	6897	4.3	2.89	2089.9			
90%	10800	59.2	2607.8	7068	4.1	3.06	2265.3			
100%	11960	69.9	3081.3	7409	3.9	3.45	2675.8			

\*以上数据为好盈实验室于室温25°C、海平面高度，变化油门输入调节测得，仅供参考。

\*The above data was measured by HOBBYWING Laboratory at room temperature 25°C, at sea level, with varying throttle input, for reference only.

## 200KV+20x10 (48V) 负载性能参数 Load Performance Parameters

曲线图 Graph



拉力数据表 Thrust Test Data

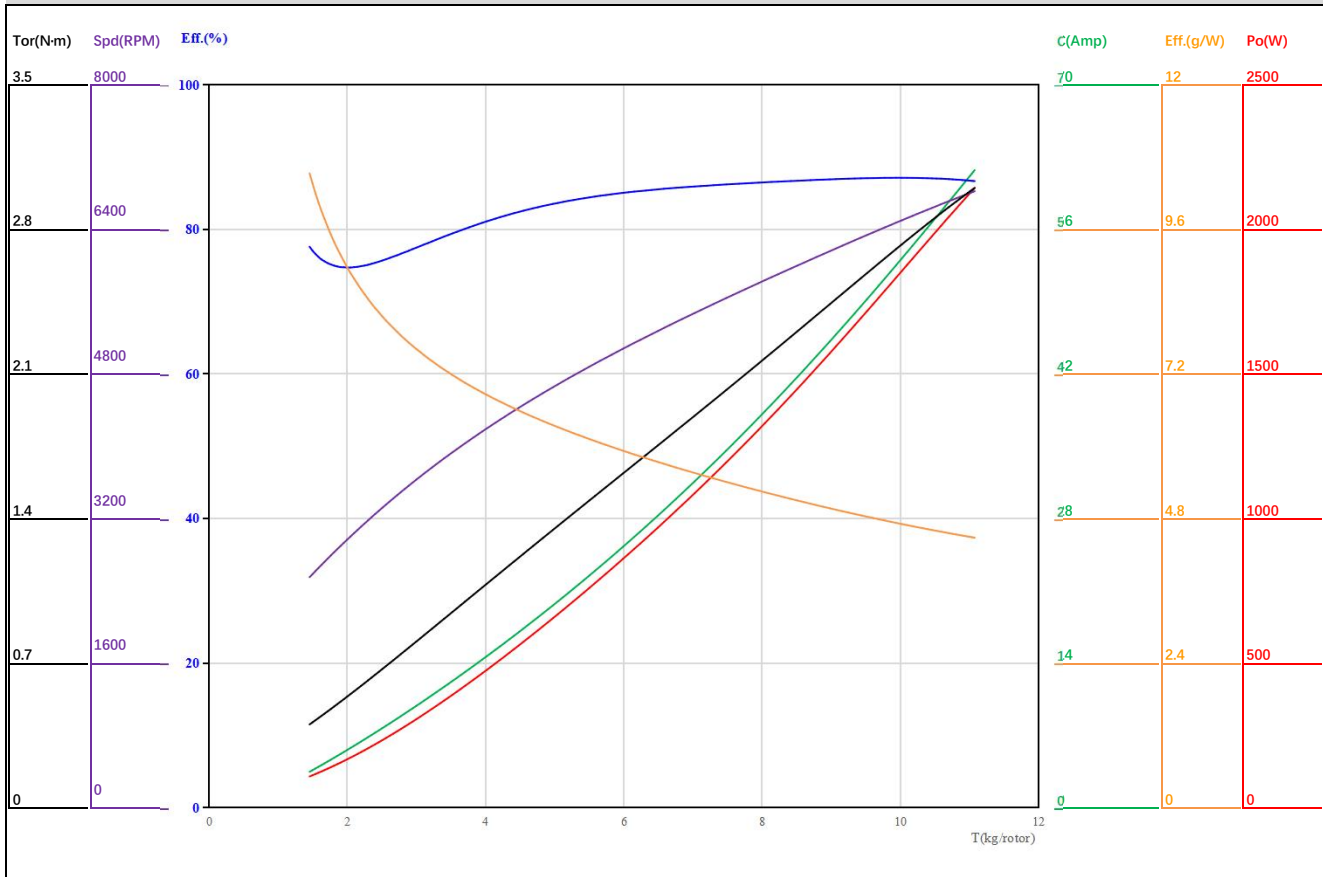
Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power Input(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque (N-m) 扭矩	Power Output(W) 输出功率	Motor Temperature(°C) 电机温度
48V (12S LiPo)	20x10	35%	2421	6.8	326.5	3401	7.4	0.66	235.4	85°C
		37%	2669	7.7	370.2	3567	7.2	0.73	272.0	
		39%	2931	8.7	416.8	3734	7.0	0.80	312.5	
		42%	3342	10.2	491.9	3980	6.8	0.91	379.7	
		45%	3768	11.9	574.1	4221	6.6	1.03	454.3	
		48%	4207	13.8	664.1	4455	6.3	1.15	536.1	
		51%	4658	15.9	763.2	4683	6.1	1.28	625.3	
		54%	5124	18.2	872.7	4909	5.9	1.41	722.8	
		57%	5607	20.7	994.1	5134	5.6	1.54	829.9	
		60%	6113	23.5	1128.9	5361	5.4	1.69	948.0	
		63%	6646	26.6	1278.5	5591	5.2	1.84	1078.9	
		66%	7208	30.0	1444.0	5824	5.0	2.01	1223.8	
		69%	7804	33.8	1625.8	6059	4.8	2.18	1383.9	
		72%	8431	37.9	1823.8	6293	4.6	2.37	1559.5	
		75%	9087	42.4	2037.5	6525	4.5	2.56	1751.1	
		78%	9765	47.2	2267.1	6749	4.3	2.77	1956.8	
		81%	10452	52.3	2513.6	6965	4.2	2.98	2176.1	
84%	11131	57.8	2778.8	7171	4.0	3.21	2406.7			
87%	11779	63.7	3063.0	7370	3.8	3.43	2646.0			
90%	12366	69.9	3358.7	7562	3.7	3.65	2886.8			
100%	13329	82.5	3964.4	7932	3.4	4.05	3359.9			

\*以上数据为好盈实验室于室温25°C、海平面高度，变化油门输入调节测得，电机外壳温度为90%油门运行10分钟数据，仅供参考。

\*The above data was measured by HOBBYWING Laboratory at room temperature 25°C, at sea level, with varying throttle input. The motor temperature is measured after running for 10 minutes at 90% throttle, for reference only.

## 200KV+21x10 (40V) 负载性能参数 Load Performance Parameters

曲线图 Graph



拉力数据表 Thrust Test Data

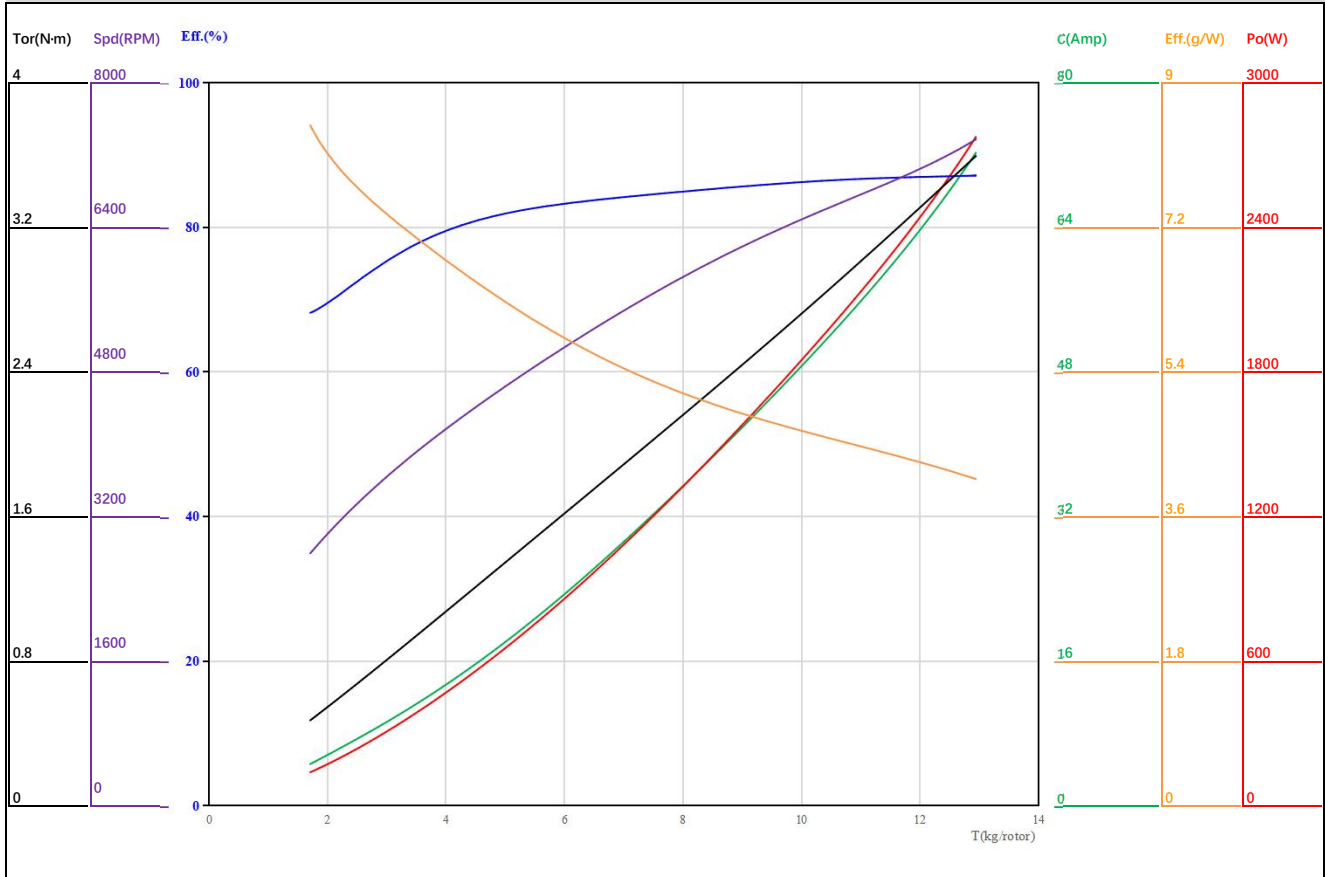
Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power Input(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque (N-m) 扭矩	Power Output(W) 输出功率	Motor Temperature(°C) 电机温度
40V (12S LiPo)	21x10	35%	1905	5.2	207.7	2894	9.2	0.51	155.2	/
		37%	2100	6.0	239.2	3036	8.8	0.56	178.8	
		39%	2302	6.8	272.6	3177	8.4	0.62	204.7	
		42%	2617	8.1	326.3	3388	8.0	0.70	248.1	
		45%	2945	9.6	384.2	3595	7.7	0.79	296.8	
		48%	3287	11.1	446.5	3798	7.4	0.88	350.7	
		51%	3644	12.8	513.7	3997	7.1	0.98	410.2	
		54%	4019	14.6	586.6	4195	6.9	1.08	475.7	
		57%	4414	16.6	666.0	4391	6.6	1.19	547.7	
		60%	4831	18.8	753.0	4586	6.4	1.30	626.6	
		63%	5273	21.2	848.6	4781	6.2	1.42	713.1	
		66%	5742	23.8	953.9	4977	6.0	1.55	808.2	
		69%	6237	26.7	1069.8	5174	5.8	1.68	912.3	
		72%	6756	29.9	1197.0	5373	5.6	1.82	1026.2	
		75%	7298	33.3	1335.7	5572	5.5	1.97	1149.9	
		78%	7855	37.1	1485.1	5770	5.3	2.12	1283.0	
		81%	8419	41.0	1643.4	5966	5.1	2.28	1424.3	
84%	8979	45.1	1807.4	6156	5.0	2.44	1570.5			
87%	9519	49.2	1971.8	6336	4.8	2.59	1716.7			
90%	10020	53.2	2129.2	6498	4.7	2.73	1854.8			
100%	11076	61.7	2472.8	6821	4.5	3.00	2142.7			

\*以上数据为好盈实验室于室温25°C、海平面高度，变化油门输入调节测得，仅供参考。

\*The above data was measured by HOBBYWING Laboratory at room temperature 25°C, at sea level, with varying throttle input, for reference only.

## 200KV+21x10 (44V) 负载性能参数 Load Performance Parameters

曲线图 Graph



拉力数据表 Thrust Test Data

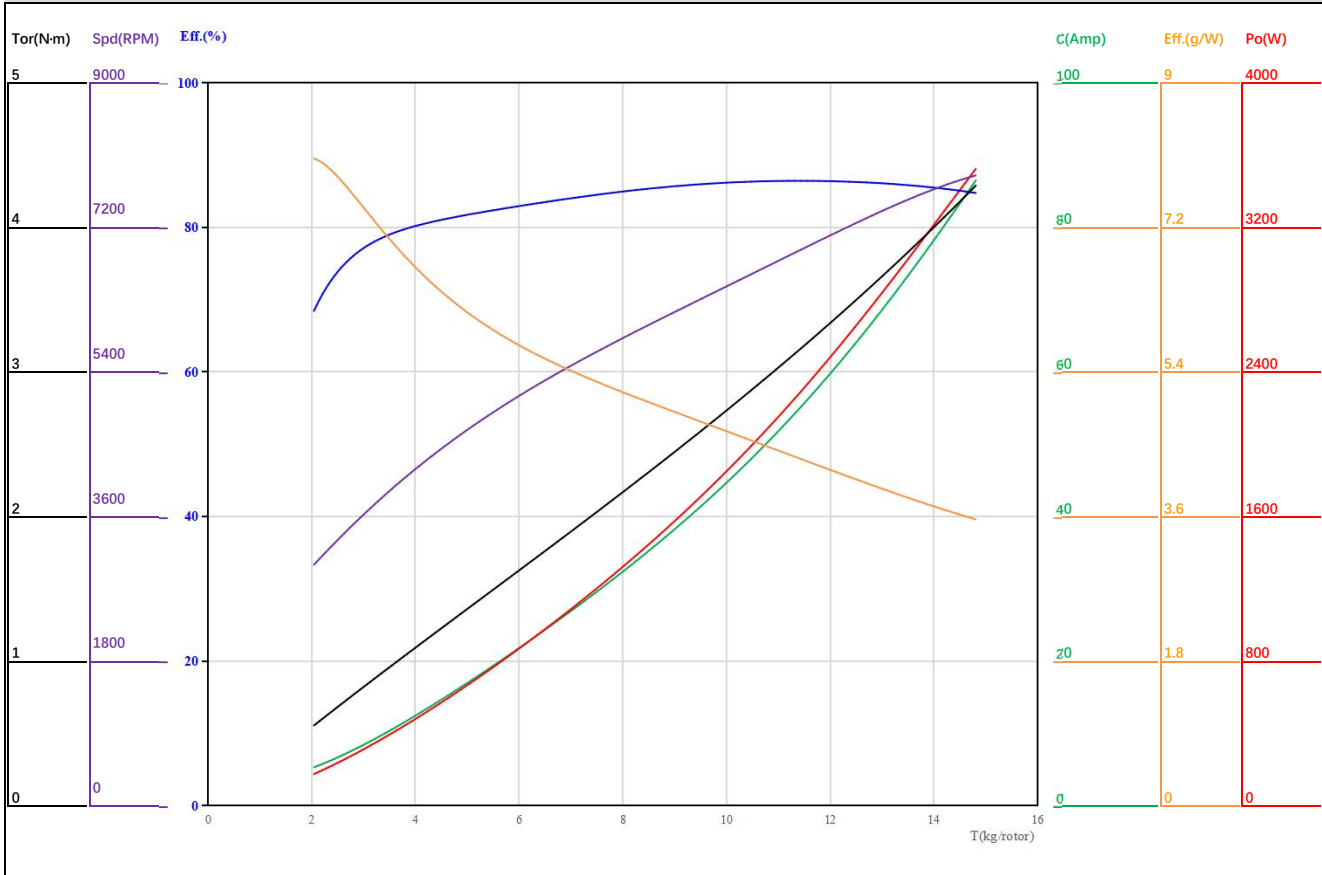
Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power Input(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque (N-m) 扭矩	Power Output(W) 输出功率	Motor Temperature(°C) 电机温度
44V (12S LiPo)	21x10	35%	2174	6.2	273.2	3124	8.0	0.59	192.6	/
		37%	2407	7.0	309.9	3279	7.8	0.65	222.9	
		39%	2658	7.9	350.3	3436	7.6	0.71	257.2	
		42%	3056	9.5	416.9	3670	7.3	0.82	315.2	
		45%	3472	11.1	490.0	3897	7.1	0.93	380.0	
		48%	3898	12.9	569.4	4116	6.8	1.05	450.8	
		51%	4332	14.9	655.3	4327	6.6	1.16	527.1	
		54%	4776	17.0	748.2	4535	6.4	1.28	609.6	
		57%	5233	19.3	849.4	4741	6.2	1.41	698.9	
		60%	5709	21.8	960.3	4948	5.9	1.54	796.3	
		63%	6209	24.6	1082.4	5158	5.7	1.67	903.4	
		66%	6738	27.6	1217.5	5373	5.5	1.82	1022.0	
		69%	7302	31.0	1366.7	5592	5.3	1.97	1153.5	
		72%	7900	34.7	1530.8	5814	5.2	2.13	1299.1	
		75%	8533	38.8	1709.6	6033	5.0	2.31	1458.4	
		78%	9196	43.1	1901.9	6247	4.8	2.49	1631.1	
		81%	9877	47.8	2105.7	6451	4.7	2.69	1814.7	
84%	10561	52.6	2318.2	6642	4.6	2.88	2005.5			
87%	11225	57.5	2535.0	6823	4.4	3.08	2199.1			
90%	11838	62.4	2748.7	6997	4.3	3.26	2388.9			
100%	12940	72.2	3183.0	7372	4.1	3.59	2774.0			

\*以上数据为好盈实验室于室温25°C、海平面高度，变化油门输入调节测得，仅供参考。

\*The above data was measured by HOBBYWING Laboratory at room temperature 25°C, at sea level, with varying throttle input, for reference only.

## 200KV+21x10 (48V) 负载性能参数 Load Performance Parameters

### 曲线图 Graph



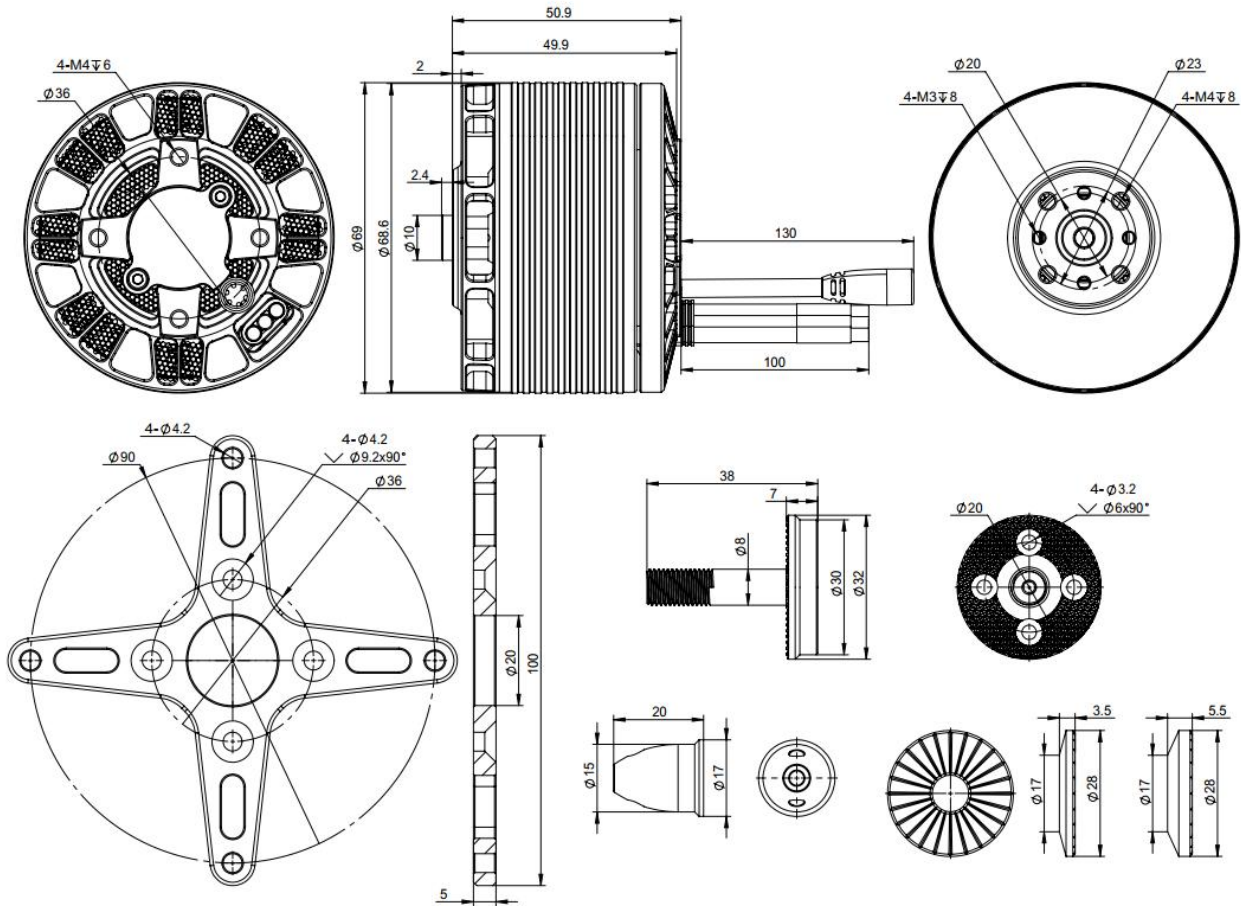
### 拉力数据表 Thrust Test Data

Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power Input(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque (N-m) 扭矩	Power Output(W) 输出功率	Motor Temperature(°C) 电机温度
48V (12S LiPo)	21x10	35%	2625	7.1	339.1	3385	7.7	0.72	253.7	87°C
		37%	2876	7.9	381.1	3544	7.5	0.79	291.4	
		39%	3139	8.9	427.8	3704	7.3	0.86	332.5	
		42%	3554	10.5	506.5	3945	7.0	0.97	400.8	
		45%	3995	12.4	595.7	4185	6.7	1.09	477.5	
		48%	4465	14.5	695.4	4423	6.4	1.22	563.0	
		51%	4963	16.8	805.8	4659	6.2	1.35	658.1	
		54%	5492	19.3	926.9	4891	5.9	1.49	763.1	
		57%	6052	22.0	1059.3	5120	5.7	1.64	879.0	
		60%	6643	25.0	1203.4	5345	5.5	1.80	1006.4	
		63%	7264	28.3	1360.3	5568	5.3	1.97	1146.2	
		66%	7914	31.9	1531.3	5790	5.2	2.14	1299.5	
		69%	8590	35.7	1718.1	6012	5.0	2.33	1467.2	
		72%	9288	40.0	1922.4	6236	4.8	2.53	1650.2	
		75%	10000	44.6	2145.9	6463	4.7	2.73	1848.9	
		78%	10719	49.7	2388.9	6692	4.5	2.94	2063.0	
		81%	11435	55.1	2650.2	6919	4.3	3.16	2290.1	
84%	12134	60.9	2925.7	7139	4.1	3.38	2526.1			
87%	12801	66.7	3207.5	7343	4.0	3.59	2763.5			
90%	13417	72.5	3484.2	7520	3.9	3.80	2991.7			
100%	14809	86.5	4157.4	7845	3.6	4.29	3522.8			

\*以上数据为好盈实验室于室温25°C、海平面高度，变化油门输入调节测得，电机外壳温度为90%油门运行10分钟数据，仅供参考。

\*The above data was measured by HOBBYWING Laboratory at room temperature 25°C, at sea level, with varying throttle input. The motor temperature is measured after running for 10 minutes at 90% throttle, for reference only.

## 尺寸图 Dimension Figure



## 应用搭配推荐 Recommended Application Combinations

巡航电机型号 Motor	C6225-200KV
推荐搭配桨叶 Propeller	20×10/21×10
推荐搭配电调 ESC	XRotor Pro H130A 14S BLDC IPC
推荐搭配电池 Battery	12S LiPo
单发电机起飞重量 Takeoff weight of single motor	20~25 kg