

M4006 HighProt

基础参数 Specification I

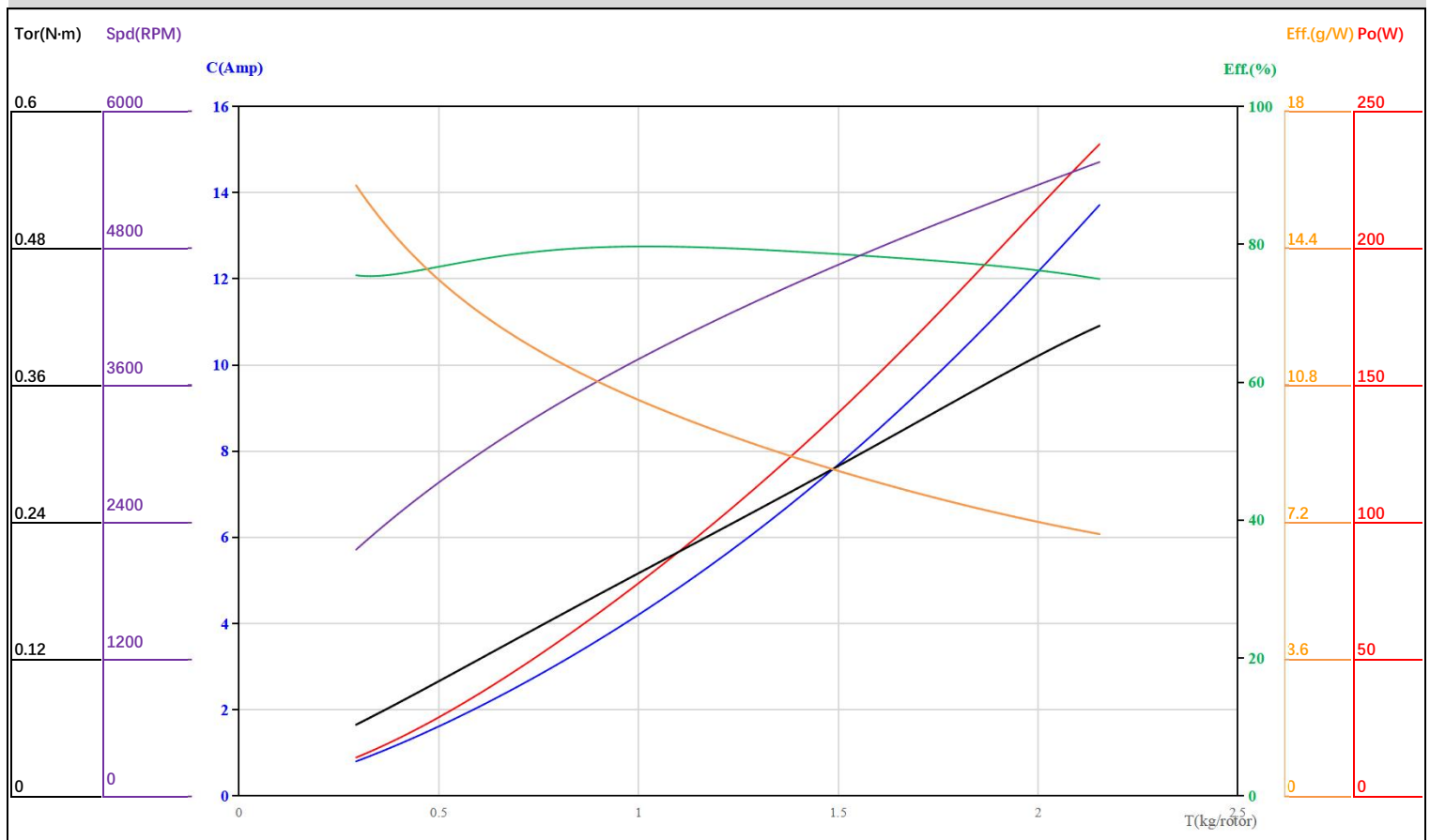
产品型号 Model	M4006 HighProt-330KV	防尘防水等级 Protection level	IP45
电机尺寸 Motor Size	Φ44.4*H19.7mm	槽极数 Slot& Pole	18槽24极 18N24P
定子尺寸 Stator Size	Φ40*H6mm	电机整体动平衡标准 Dynamic balance	≤5mg
定子工艺 Stator process	高品质硅钢片，防锈处理，耐180℃高温涂覆 High standard silicon steel sheet, rust proof, 180℃ high temperature resistance paint-coat	轴承型号 Bearing	高品质防水轴承 Water proof bearing
漆包线等级 Enamelled wire	220℃	出轴轴径 Motor axle diameter	Φ4mm
磁铁等级 Magnet	180℃	桨叶安装孔尺寸 Props mounting dimensions	4*M3@D12mm
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*M3@D25mm
额定输入功率 Rated power input	93W	额定输出功率 Rated power output	79W

技术参数 Specification II

KV值 KV	330KV
额定电压 Battery(LiPo)	LiPo-6S
空载电流 No-load current	0.58A
最大电流/A(非密闭环境温度 ≤25 ℃) Maximum current (Non-hermetic Ambient Temperature ≤ 25℃)	15.8A
最大功率 Max power	363W
最大拉力 Max thrust	2.3kg
相间内阻 Resistance	218.5mΩ
出线规格 Wire Size	漆包线直出 enamelled wire outlet
出线长度 Wire length	50mm
电机重量(含线) Weight (With wire)	72g

330KV+MSC 16x5.4 负载性能参数 Load performance parameters

曲线图 Graph



拉力数据表 Motor Propeller Pull Test Data

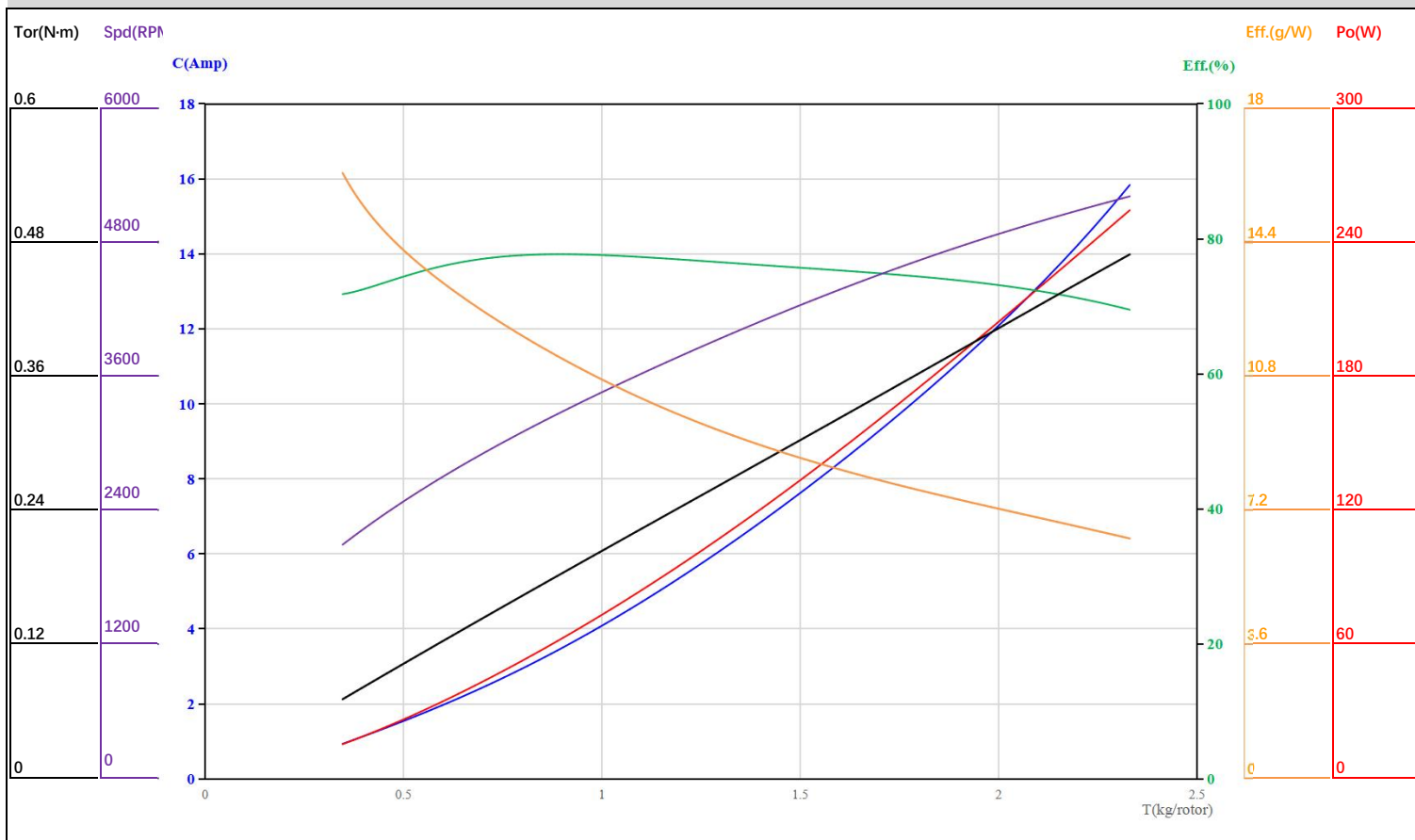
Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power Input(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque(N-m) 扭矩	Power Output(W) 输出功率	Temperature (°C) 电机温度
23V (6S LiPo)	MSC 16x5.4	33%	300	0.8	18.9	2163	15.8	0.06	14.30	57.0
		35%	329	0.9	21.3	2252	15.4	0.07	16.08	
		37%	361	1.0	24.1	2348	15.0	0.07	18.21	
		39%	398	1.2	27.4	2452	14.5	0.08	20.71	
		42%	458	1.4	33.0	2618	13.9	0.09	25.20	
		45%	527	1.7	39.8	2794	13.2	0.10	30.64	
		48%	601	2.1	47.6	2976	12.6	0.12	37.03	
		51%	681	2.5	56.5	3159	12.1	0.13	44.33	
		54%	766	2.9	66.4	3342	11.5	0.15	52.48	
		57%	853	3.4	77.3	3521	11.0	0.17	61.37	
		60%	944	3.9	89.0	3696	10.6	0.18	70.92	
		63%	1035	4.4	101.6	3864	10.2	0.20	81.00	
		66%	1127	5.0	115.0	4025	9.8	0.22	91.53	
		69%	1218	5.6	128.9	4179	9.4	0.23	102.43	
		72%	1308	6.2	143.5	4326	9.1	0.25	113.63	
		75%	1397	6.9	158.5	4466	8.8	0.27	125.08	
		78%	1484	7.6	173.9	4599	8.5	0.28	136.78	
		81%	1571	8.3	189.9	4726	8.3	0.30	148.75	
		84%	1656	9.0	206.5	4849	8.0	0.32	161.05	
		87%	1743	9.7	223.9	4971	7.8	0.33	173.79	
		90%	1831	10.5	242.4	5092	7.6	0.35	187.18	
		100%	2154	13.7	315.2	5516	6.8	0.41	236.29	

*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，电机温度为65%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 65% throttle, for reference only.

330KV+MSC 17x5.8 负载性能参数 Load performance parameters

曲线图 Graph

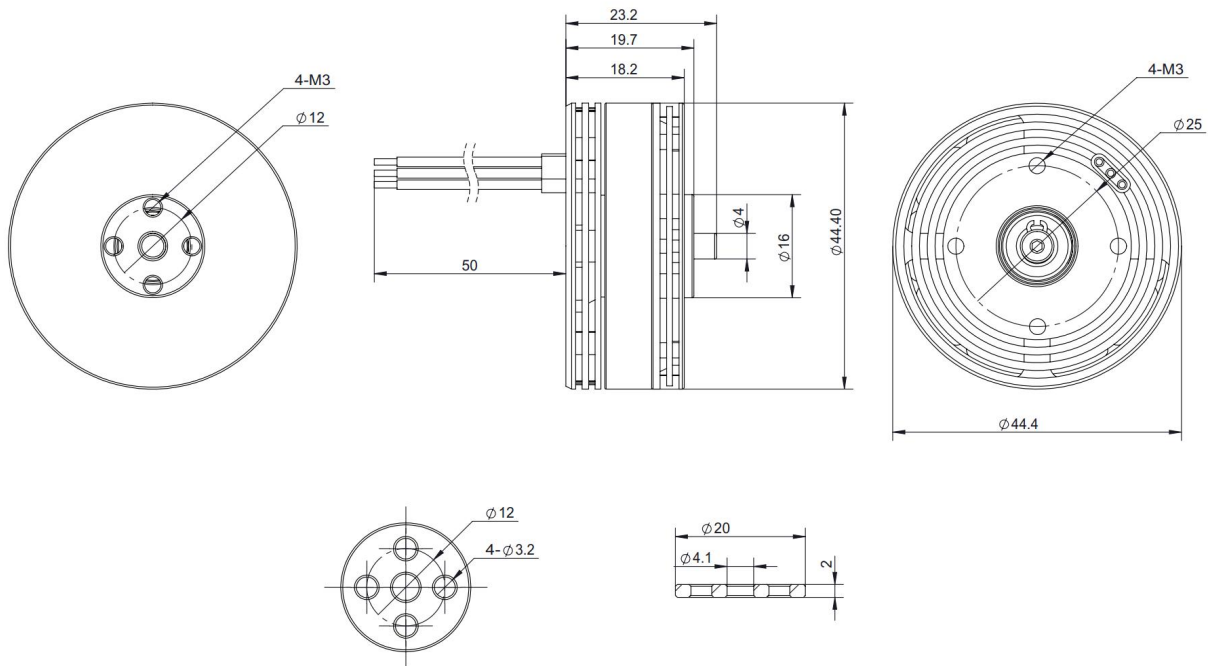


拉力数据表 Motor Propeller Pull Test Data

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	Temperature(°C) 电机温度
23V (6S LiPo)	MSC 17x5.8	33%	356	1.0	22.3	2105	16.0	0.07	16.00	70.0
		35%	394	1.1	25.6	2205	15.4	0.08	18.56	
		37%	436	1.3	29.5	2311	14.8	0.09	21.56	
		39%	482	1.5	33.8	2423	14.3	0.10	25.00	
		42%	557	1.8	41.1	2594	13.6	0.11	30.94	
		45%	639	2.1	49.4	2767	12.9	0.13	37.77	
		48%	724	2.6	58.8	2938	12.3	0.15	45.39	
		51%	813	3.0	69.2	3105	11.7	0.17	53.74	
		54%	903	3.5	80.7	3268	11.2	0.18	62.72	
		57%	995	4.0	93.1	3426	10.7	0.20	72.26	
		60%	1086	4.6	106.4	3579	10.2	0.22	82.28	
		63%	1178	5.2	120.4	3726	9.8	0.24	92.72	
		66%	1269	5.9	135.1	3869	9.4	0.26	103.53	
		69%	1360	6.5	150.3	4006	9.0	0.27	114.68	
		72%	1450	7.2	166.1	4138	8.7	0.29	126.14	
		75%	1539	7.9	182.5	4265	8.4	0.31	137.91	
		78%	1629	8.7	199.5	4388	8.2	0.33	150.00	
		81%	1719	9.4	217.2	4506	7.9	0.34	162.44	
		84%	1809	10.3	235.8	4620	7.7	0.36	175.31	
		87%	1902	11.1	255.6	4731	7.4	0.38	188.68	
		90%	1997	12.1	277.0	4840	7.2	0.40	202.67	
		100%	2331	15.8	363.6	5177	6.4	0.47	252.70	

*以上数据为好盈实验室于室温25℃、海平面高度，变化油门输入调节测得，电机温度为65%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 65% throttle, for reference only.

尺寸图 Dimension figure



应用搭配推荐 Recommended application combinations

旋翼电机 Motor	M4006 HighProt-330KV
旋翼桨叶 Propeller	MSC 16x5.4 / MSC 17x5.8
搭配电调 ESC	XRotor Pro 40A 6S BLDC / XRotor Pro H60A 6S
电池电压 Battery	6S LiPo
单轴应用拉力区间 Takeoff weight / rotor	0.6~1.0kg
四轴最大起飞重量 Takeoff weight of quadrotor	2.4~4.0kg