



M4006 Light

基础参数 Specification I

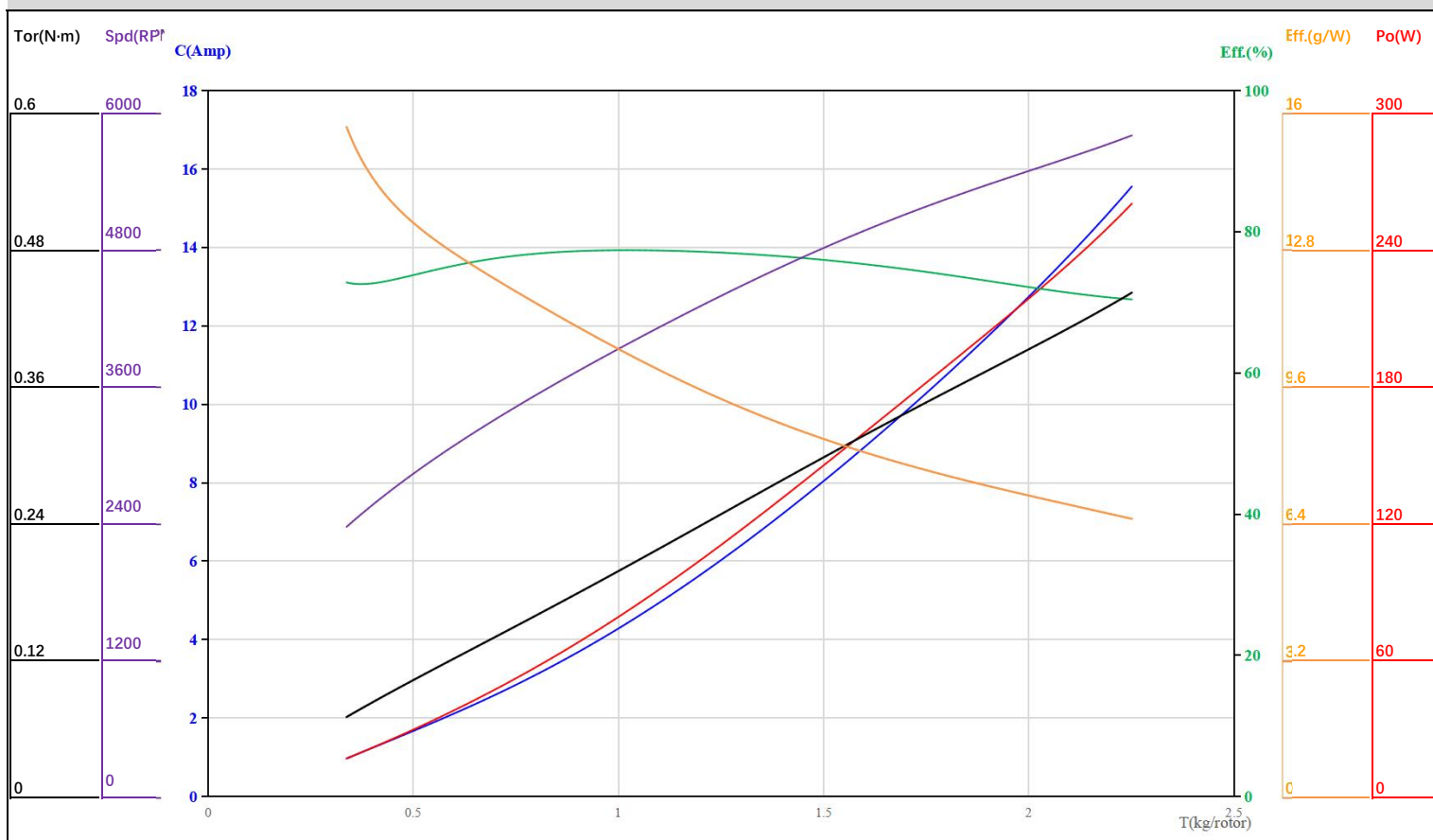
产品型号 Model	M4006 Light-350KV	防尘防水等级 Protection level	IPX5
电机尺寸 Motor Size	Φ44.4*H19.3mm	槽极数 Slot& Pole	18槽24极 18N 24P
定子尺寸 Stator Size	Φ40*H6mm	电机整体动平衡标准 Dynamic balance	≤5mg
定子工艺 Stator process	高品质硅钢片，防锈处理，耐180℃高温涂覆 High standard silicon steel sheet, rust proof, 180℃ high temperature resistance paint-coat	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	95W	额定输出功率 Rated power output	80.7W

技术参数 Specification II

KV值 KV	350KV
额定电压 Battery(LiPo)	LiPo-6S
空载电流 No-load current	0.64A
最大电流/A(非密闭环境温度 ≤25 °C) Maximum current (Non-hermetic Ambient Temperature ≤ 25°C)	17.3A
最大功率 Max power	358W
最大拉力 Max thrust	2.5kg
相间内阻 Resistance	209.7mΩ
出线规格 Wire Size	漆包线直出 enamelled wire outlet
出线长度 Wire length	60mm
电机重量(含线) Weight (With wire)	66.1g

350KV+MSC 16x5.4 负载性能参数 Load performance parameters

曲线图 Graph



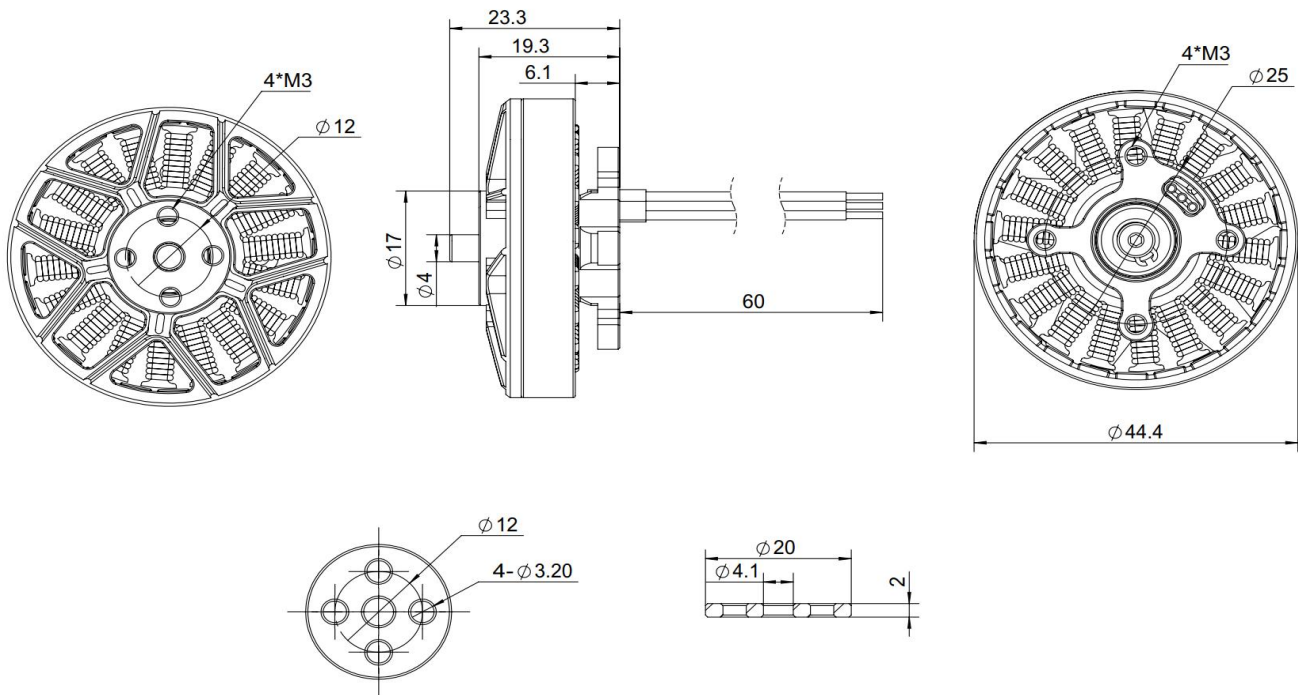
拉力数据表 Motor Propeller Pull Test Data

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%	347	1.0	23.2	2320	15.0	0.07	16.9	71.2
		35%	374	1.1	25.9	2400	14.4	0.07	18.8	
		37%	410	1.3	29.5	2503	13.9	0.08	21.4	
		39%	453	1.5	33.8	2621	13.4	0.09	24.7	
		42%	529	1.8	41.4	2814	12.8	0.10	30.7	
		45%	613	2.2	50.1	3013	12.2	0.12	37.7	
		48%	702	2.6	59.9	3209	11.7	0.14	45.7	
		51%	793	3.1	70.7	3399	11.2	0.15	54.4	
		54%	885	3.6	82.5	3583	10.7	0.17	63.7	
		57%	976	4.1	95.1	3758	10.3	0.19	73.6	
		60%	1066	4.7	108.5	3926	9.8	0.20	83.9	
		63%	1154	5.3	122.6	4087	9.4	0.22	94.7	
		66%	1242	6.0	137.4	4241	9.0	0.24	105.9	
		69%	1329	6.6	152.9	4389	8.7	0.26	117.4	
		72%	1417	7.3	169.1	4532	8.4	0.27	129.2	
		75%	1506	8.1	186.2	4670	8.1	0.29	141.5	
		78%	1595	8.9	204.2	4803	7.8	0.31	154.0	
		81%	1687	9.7	223.2	4931	7.6	0.32	167.0	
		84%	1781	10.6	243.3	5053	7.3	0.34	180.2	
		87%	1876	11.5	264.3	5170	7.1	0.36	193.6	
		90%	1971	12.4	286.3	5283	6.9	0.37	207.3	
		100%	2251	15.6	357.8	5618	6.3	0.43	251.9	

*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 Light-350KV
旋翼桨叶 Propeller	MSC 16x5.4
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