



M4006 Light

Specification I

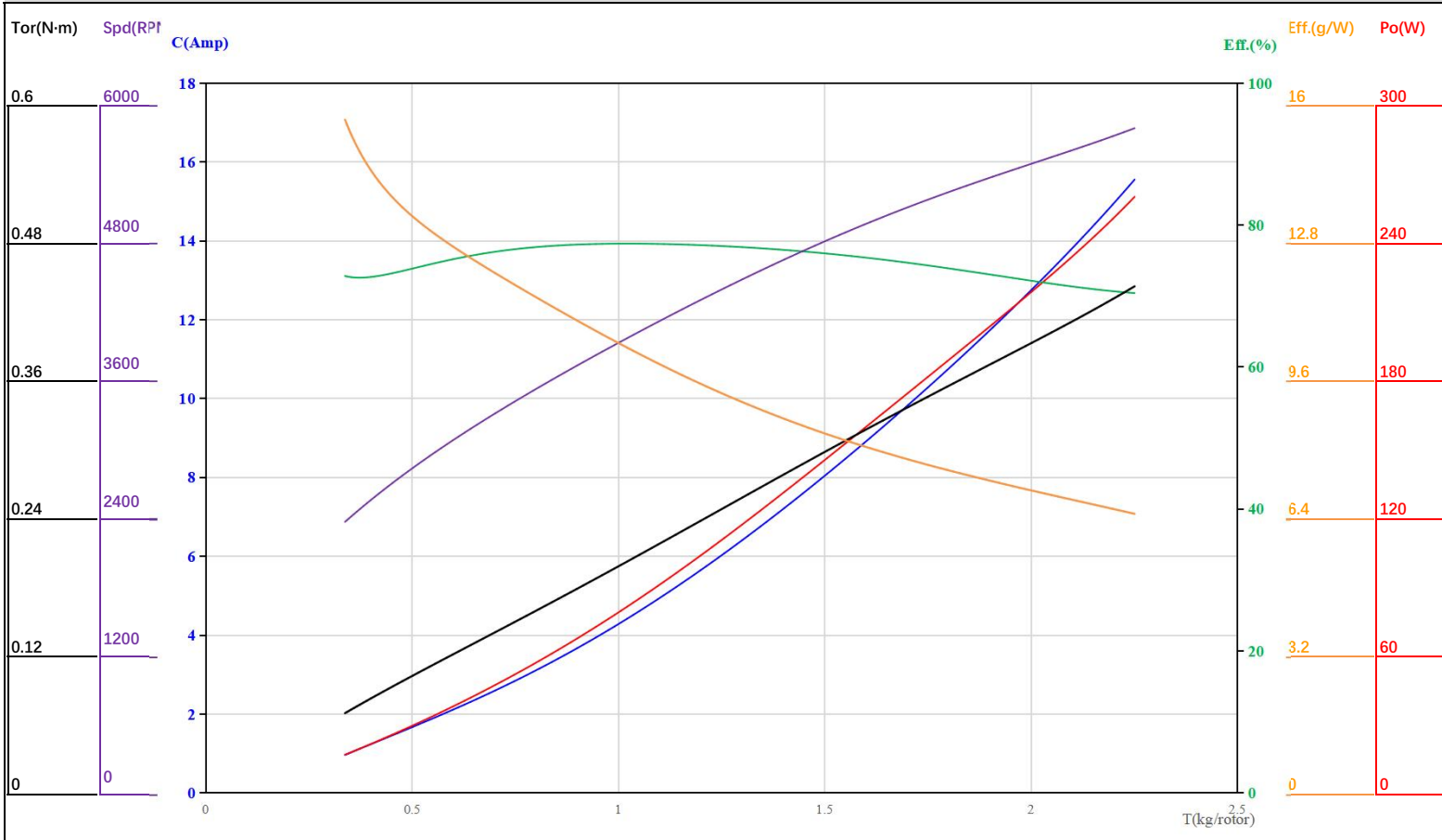
Model	M4006 Light-350KV	Protection level	IPX5
Motor Size	Φ44.4*H19.3mm	Slot& Pole	18N24P
Stator Size	Φ40*H6mm	Dynamic balance	≤5mg
Stator process	High standard silicon steel sheet, rust proof, 180°C high temperature resistance paint-coat	Bearing	Water proof bearing
Enamelled wire	220°C	Motor axle diameter	Φ4mm
Magnet	180°C	Props mounting dimensions	4*M3@D12mm
Isolation test	500V AC high voltage resistance test	Motor mounting dimensions	4*M3@D25mm
Rated power input	95W	Rated power output	80.7W

Specification II

KV	350
Battery(LiPo)	LiPo-6S
No-load current	0.64A
Maximum current (Non-hermetic Ambient Temperature ≤ 25°C)	17.3A
Max power	358W
Max thrust	2.5kg
Resistance	209.7mΩ
Wire Size	enamelled wire outlet
Wire length	60mm
Weight (With wire)	66.1g

350KV+MSC 16x5.4 Load performance parameters

Graph

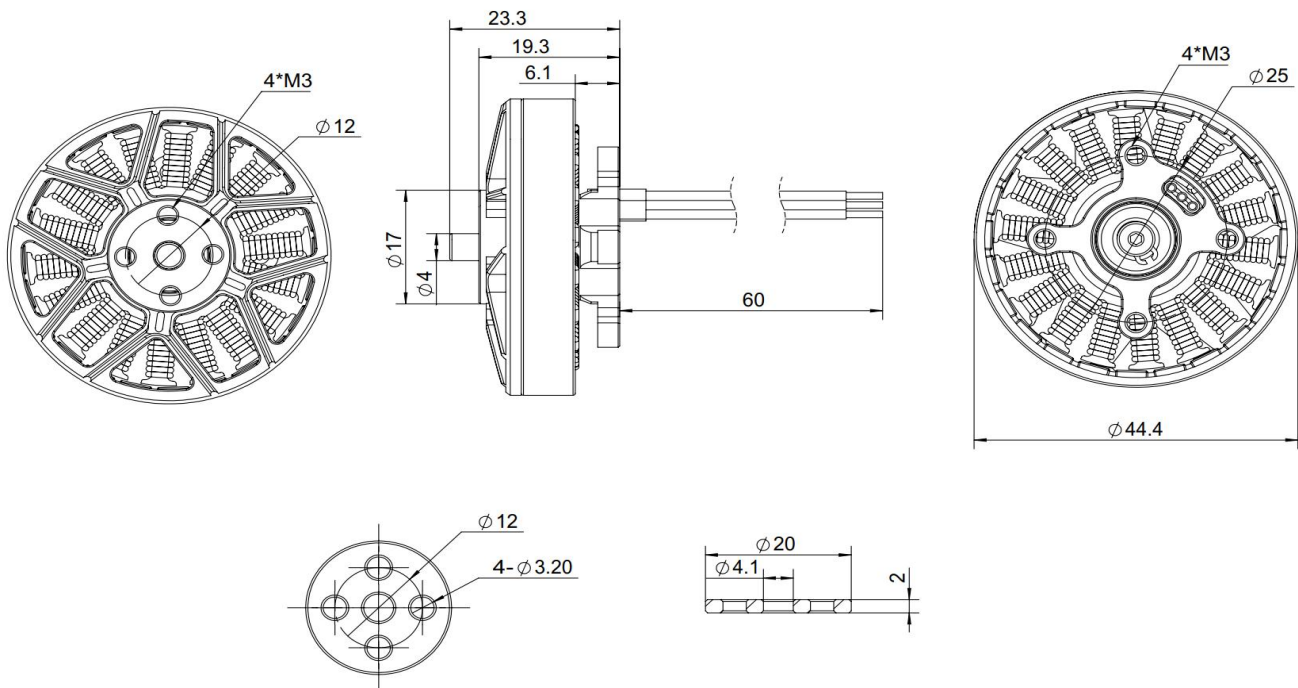


Motor Propeller Pull Test Data

Voltage(V)	Propeller	Throttle(%)	Thrust(g)	Current(A)	Power Input(W)	Speed(RPM)	Efficiency(g/W)	Torque(N-m)	Power Output(W)	Temperature(°C)
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	

*The above data was measured by HOBBYWING Laboratory at room temperature 25°C, at sea level, with varying throttle input. The motor housing temperature is measured after running for 10 minutes at 65% throttle, for reference only.

Dimension figure



Recommended application combinations

Motor	M4006 Light
Propeller	MSC 16x5.4
ESC	XRotor Pro 40A 6S BLDC / XRotor Pro H60A 6S
Battery	6S LiPo
Takeoff weight / rotor	0.6~1.0kg
Takeoff weight of quadrotor	2.4~4.0kg