



M6208 Light

基础参数 Specification I

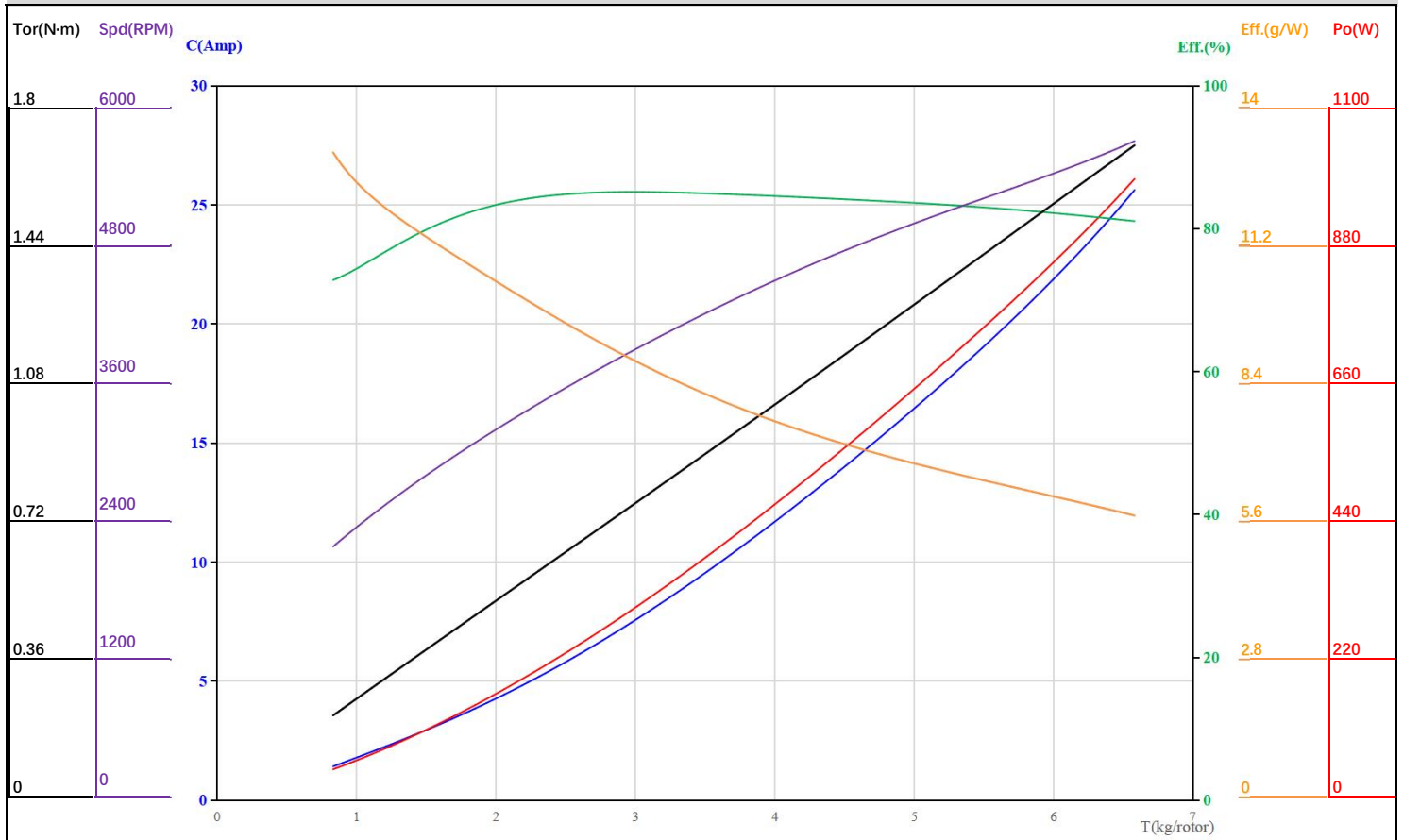
产品型号 Model	M6208 Light-155/310KV	防尘防水等级 Protection level	IPX5
电机尺寸 Motor Size	Φ68.7mm*H25.8mm	槽极数 Slot& Pole	24槽28极 24N 28P
定子尺寸 Stator Size	Φ62*H8mm	电机整体动平衡标准 Dynamic balance	≤8mg
定子工艺 Stator process	高品质硅钢片，防锈处理，耐180℃高温涂覆 High standard silicon steel sheet, rust proof, 180℃ high temperature resistance paint-coat	轴承型号 Bearing	高品质防水轴承 Water proof bearing
漆包线等级 Enamelled wire	200℃	出轴轴径 Motor axle diameter	Φ4mm
磁铁等级 Magnet	150℃	桨叶安装孔尺寸 Props mounting dimensions	4*M3@D12mm , 4*M4@D18mm
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@D32mm
额定输入功率 Rated power input	250W	额定输出功率 Rated power output	212.5W

技术参数 Specification II

KV值 KV	155	310
额定电压 Battery(LiPo)	LiPo-12S	LiPo-16S
空载电流 No-load current	0.92A	1.65A
最大电流/A(非密闭环境温度 ≤25℃) Maximum current (Non-hermetic Ambient Temperature ≤ 25℃)	28.5A	60A
最大功率 Max power	1038W	1050W
最大拉力 Max thrust	7kg	7kg
相间内阻 Resistance	161.4mΩ	42.3mΩ
出线规格 Wire Size	漆包线直出 enamelled wire outlet	漆包线直出 enamelled wire outlet
出线长度 Wire length	50mm	50mm
电机重量(含线) Weight (With wire)	165g	169g

155KV+MSC 21x6.3 负载性能参数 Load performance parameters

曲线图 Graph



拉力数据表 Motor Propeller Pull Test Data

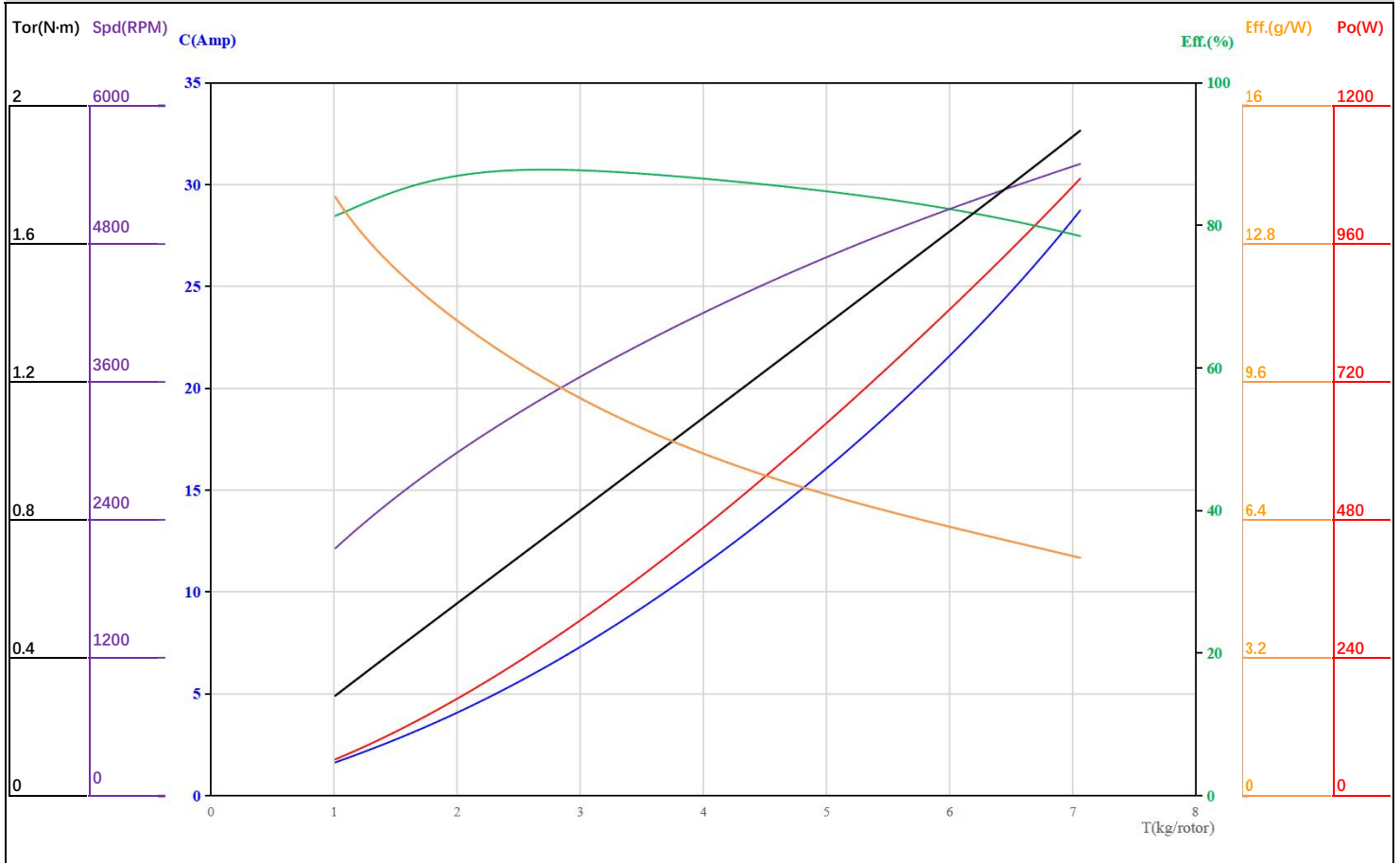
Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power Input(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque(N-m) 扭矩	Power Output(W) 输出功率	Temperature(°C) 电机温度
46V (12S LiPo)	MSC 21x6.3	33%	853	1.5	67.7	2152	12.6	0.22	57.5	58.0
		35%	953	1.7	77.8	2249	12.2	0.24	66.1	
		37%	1075	2.0	90.2	2363	11.9	0.27	76.7	
		39%	1212	2.3	104.6	2487	11.6	0.31	88.9	
		42%	1440	2.8	129.2	2680	11.1	0.37	109.8	
		45%	1683	3.4	157.2	2875	10.7	0.42	133.6	
		48%	1934	4.1	188.1	3065	10.3	0.49	159.9	
		51%	2185	4.8	221.7	3246	9.9	0.55	188.4	
		54%	2436	5.6	257.7	3420	9.5	0.61	219.1	
		57%	2684	6.4	296.1	3585	9.1	0.67	251.7	
		60%	2931	7.3	336.7	3743	8.7	0.73	286.2	
		63%	3178	8.2	379.8	3896	8.4	0.79	322.9	
		66%	3428	9.2	425.8	4046	8.1	0.85	361.9	
		69%	3684	10.3	475.0	4192	7.8	0.92	403.8	
		72%	3949	11.5	528.1	4337	7.5	0.98	448.9	
		75%	4225	12.7	585.5	4480	7.2	1.05	497.6	
		78%	4512	14.1	647.4	4621	7.0	1.13	550.3	
		81%	4812	15.5	714.2	4760	6.7	1.20	607.1	
		84%	5121	17.1	785.7	4896	6.5	1.28	667.8	
		87%	5435	18.7	861.4	5028	6.3	1.36	732.2	
		90%	5748	20.4	940.3	5157	6.1	1.44	799.3	
		100%	6582	25.6	1180.0	5536	5.6	1.65	1003.0	

*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，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.

155KV+MSC 22x7.8 负载性能参数 Load performance parameters

曲线图 Graph



拉力数据表 Motor Propeller Pull Test Data

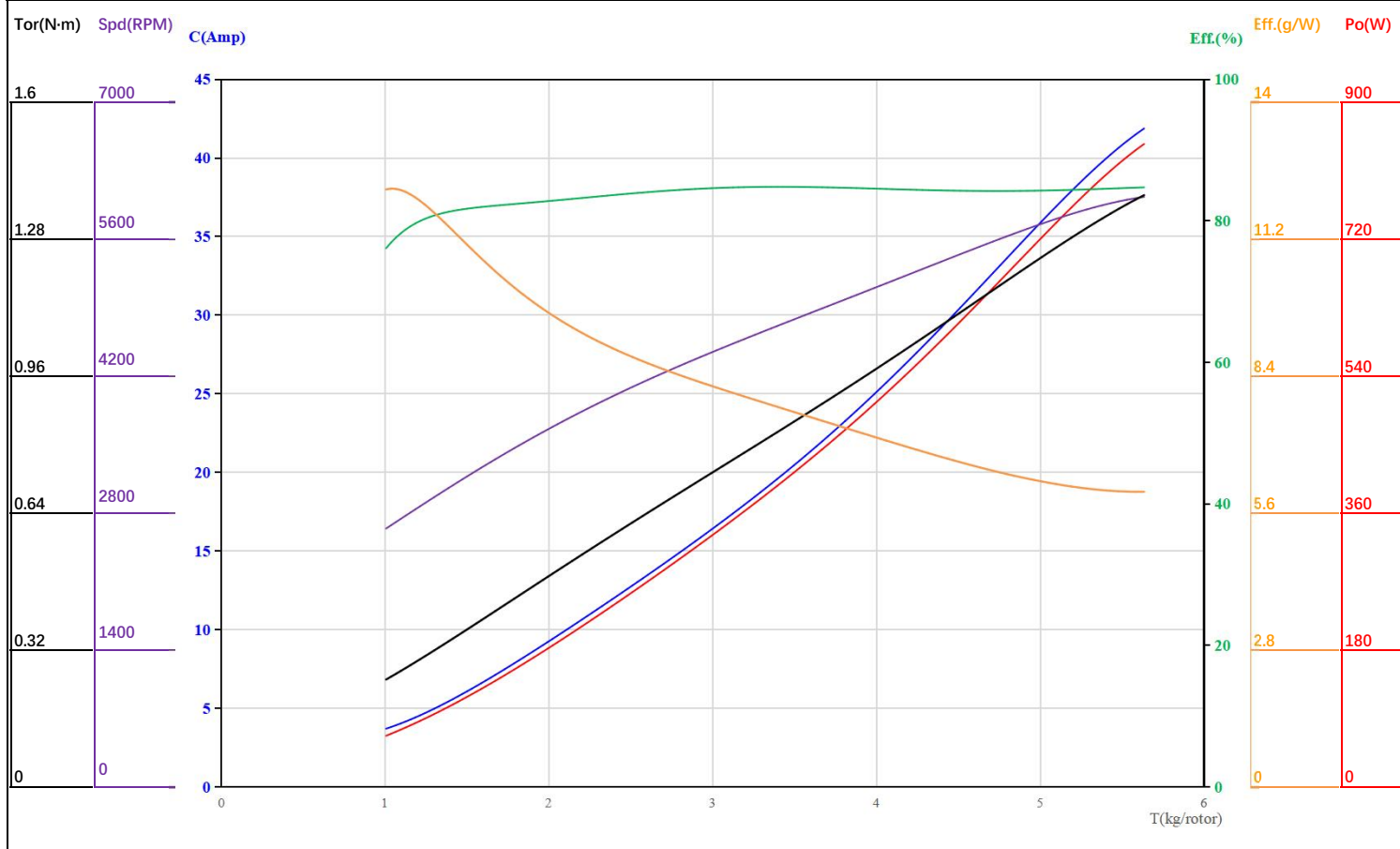
Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power Input(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque(N-m) 扭矩	Power Output(W) 输出功率	Temperature(°C) 电机温度
46V (12S LiPo)	MSC 22x7.8	33%	1030	1.7	77.2	2101	13.3	0.29	65.6	79.0
		35%	1132	1.9	87.5	2195	12.9	0.31	74.4	
		37%	1258	2.2	100.5	2307	12.5	0.35	85.4	
		39%	1402	2.5	116.0	2429	12.1	0.38	98.6	
		42%	1641	3.1	143.2	2622	11.5	0.45	121.7	
		45%	1900	3.8	174.8	2816	10.9	0.51	148.6	
		48%	2168	4.6	210.1	3004	10.3	0.58	178.6	
		51%	2440	5.4	248.5	3184	9.8	0.65	211.2	
		54%	2712	6.3	289.7	3353	9.4	0.72	246.2	
		57%	2981	7.2	333.2	3514	8.9	0.79	283.2	
		60%	3249	8.2	379.1	3666	8.6	0.86	322.2	
		63%	3516	9.3	427.3	3812	8.2	0.93	363.2	
		66%	3784	10.4	478.3	3953	7.9	1.00	406.5	
		69%	4056	11.6	532.4	4091	7.6	1.07	452.5	
		72%	4334	12.8	590.2	4226	7.3	1.15	501.7	
		75%	4619	14.2	652.4	4361	7.1	1.22	554.5	
		78%	4915	15.6	719.5	4494	6.8	1.30	611.6	
		81%	5220	17.2	792.0	4625	6.6	1.38	673.2	
		84%	5534	18.9	870.2	4755	6.4	1.46	739.7	
		87%	5852	20.7	953.8	4880	6.1	1.54	810.8	
		90%	6171	22.6	1042.2	5000	5.9	1.63	885.9	
		100%	7062	28.7	1323.1	5317	5.3	1.87	1124.6	

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曲线图 Graph



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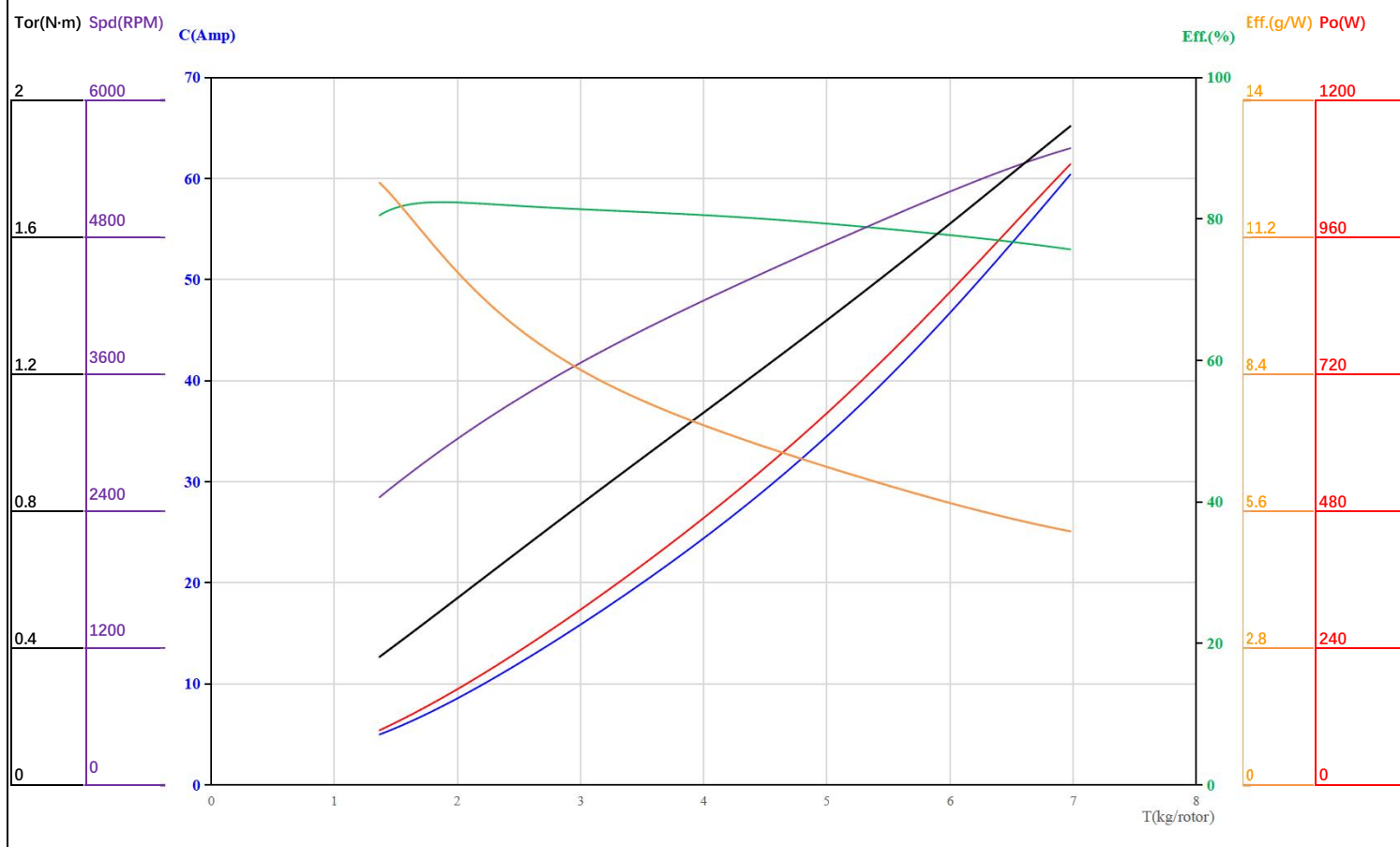
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23V (6S LiPo)	MSC 21x6.3	33%	1038	3.8	87.7	2588	11.8	0.25	74.6	55.0
		35%	1157	4.3	98.7	2714	11.7	0.28	83.9	
		37%	1273	4.8	111.3	2836	11.4	0.30	94.6	
		39%	1388	5.4	125.2	2955	11.1	0.33	106.4	
		42%	1560	6.4	147.9	3128	10.5	0.37	125.7	
		45%	1732	7.5	172.5	3295	10.0	0.41	146.7	
		48%	1906	8.6	198.8	3457	9.6	0.45	168.9	
		51%	2084	9.8	226.3	3613	9.2	0.50	192.4	
		54%	2265	11.1	255.1	3764	8.9	0.54	216.9	
		57%	2449	12.4	285.1	3909	8.6	0.58	242.3	
		60%	2638	13.7	316.3	4050	8.3	0.63	268.9	
		63%	2830	15.1	348.9	4186	8.1	0.67	296.6	
		66%	3026	16.6	383.1	4319	7.9	0.72	325.7	
		69%	3226	18.2	419.3	4450	7.7	0.76	356.4	
		72%	3428	19.9	457.9	4580	7.5	0.81	389.2	
		75%	3635	21.7	499.3	4711	7.3	0.86	424.4	
		78%	3845	23.6	544.1	4844	7.1	0.91	462.5	
		81%	4060	25.7	592.6	4981	6.9	0.96	503.7	
		84%	4282	28.0	645.3	5123	6.6	1.01	548.5	
		87%	4512	30.5	702.5	5270	6.4	1.07	597.1	
		90%	4754	33.1	764.0	5420	6.2	1.13	649.4	
		100%	5634	41.9	965.1	5837	5.8	1.34	820.4	

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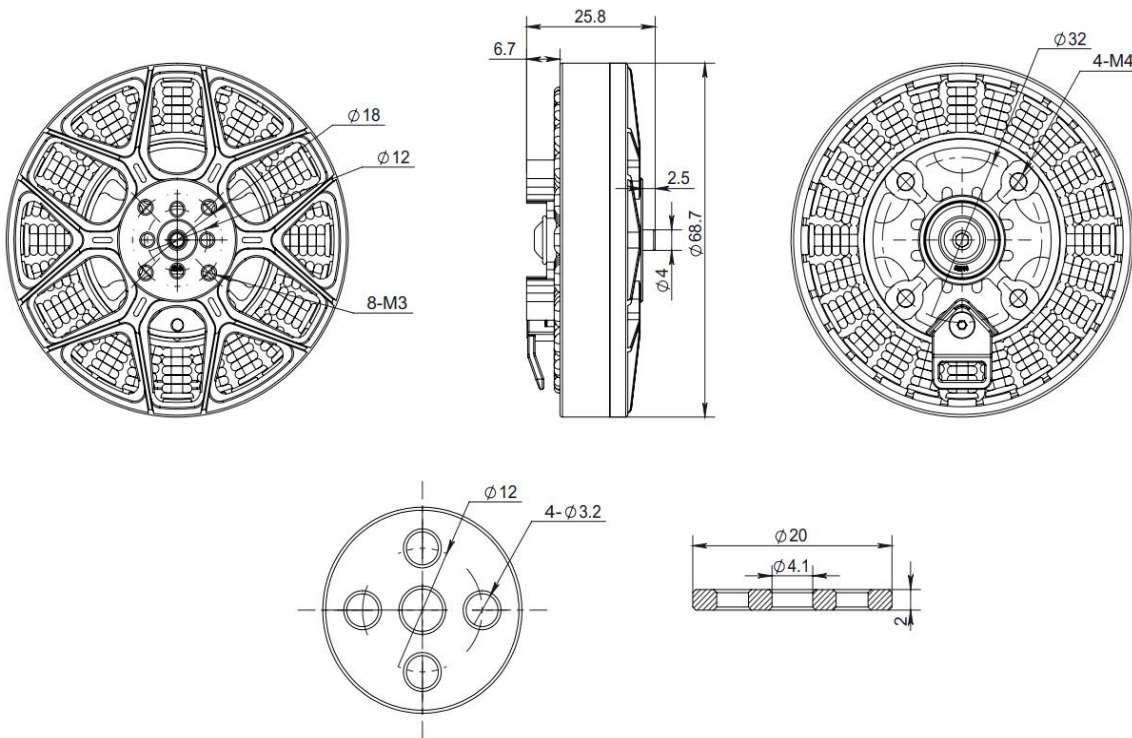
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23V (6S LiPo)	MSC 22x7.8	33%	1399	5.1	118.1	2465	11.8	0.37	100.4	83.0
		35%	1528	5.8	133.0	2572	11.5	0.40	113.0	
		37%	1666	6.5	150.2	2682	11.1	0.44	127.6	
		39%	1809	7.4	169.5	2793	10.7	0.48	144.1	
		42%	2031	8.8	201.8	2957	10.1	0.54	171.5	
		45%	2259	10.3	237.3	3116	9.5	0.60	201.7	
		48%	2488	11.9	275.0	3268	9.0	0.66	233.8	
		51%	2716	13.6	314.3	3411	8.6	0.72	267.2	
		54%	2943	15.4	354.8	3546	8.3	0.78	301.6	
		57%	3167	17.2	396.2	3674	8.0	0.84	336.8	
		60%	3390	19.0	438.7	3795	7.7	0.89	372.9	
		63%	3613	20.9	482.4	3912	7.5	0.95	410.1	
		66%	3837	22.9	527.9	4026	7.3	1.01	448.7	
		69%	4064	25.0	575.8	4139	7.1	1.07	489.4	
		72%	4297	27.2	626.7	4252	6.9	1.13	532.7	
		75%	4537	29.6	681.5	4366	6.7	1.19	579.3	
		78%	4787	32.2	741.4	4484	6.5	1.26	630.2	
		81%	5049	35.0	807.2	4605	6.3	1.33	686.1	
		84%	5324	38.2	880.2	4732	6.0	1.40	748.2	
		87%	5614	41.7	961.3	4863	5.8	1.48	817.1	
		90%	5919	45.6	1051.2	4997	5.6	1.56	893.6	
		100%	6977	60.4	1390.7	5399	5.0	1.86	1182.1	

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尺寸图 Dimension figure



应用搭配推荐 Recommended application combinations

旋翼电机 Motor	M6208 Light-155/310KV
旋翼桨叶 Propeller	MSC 21x6.3/MSC 22x7.8
搭配电调 ESC	XRotor Pro H60A 14S/6S
电池电压 Battery	12S/6S LiPo
单轴应用拉力区间 Takeoff weight / rotor	2~2.5kg
四轴最大起飞重量 Takeoff weight of quadrotor	8~10kg