



M6210 HighProt

Specification I

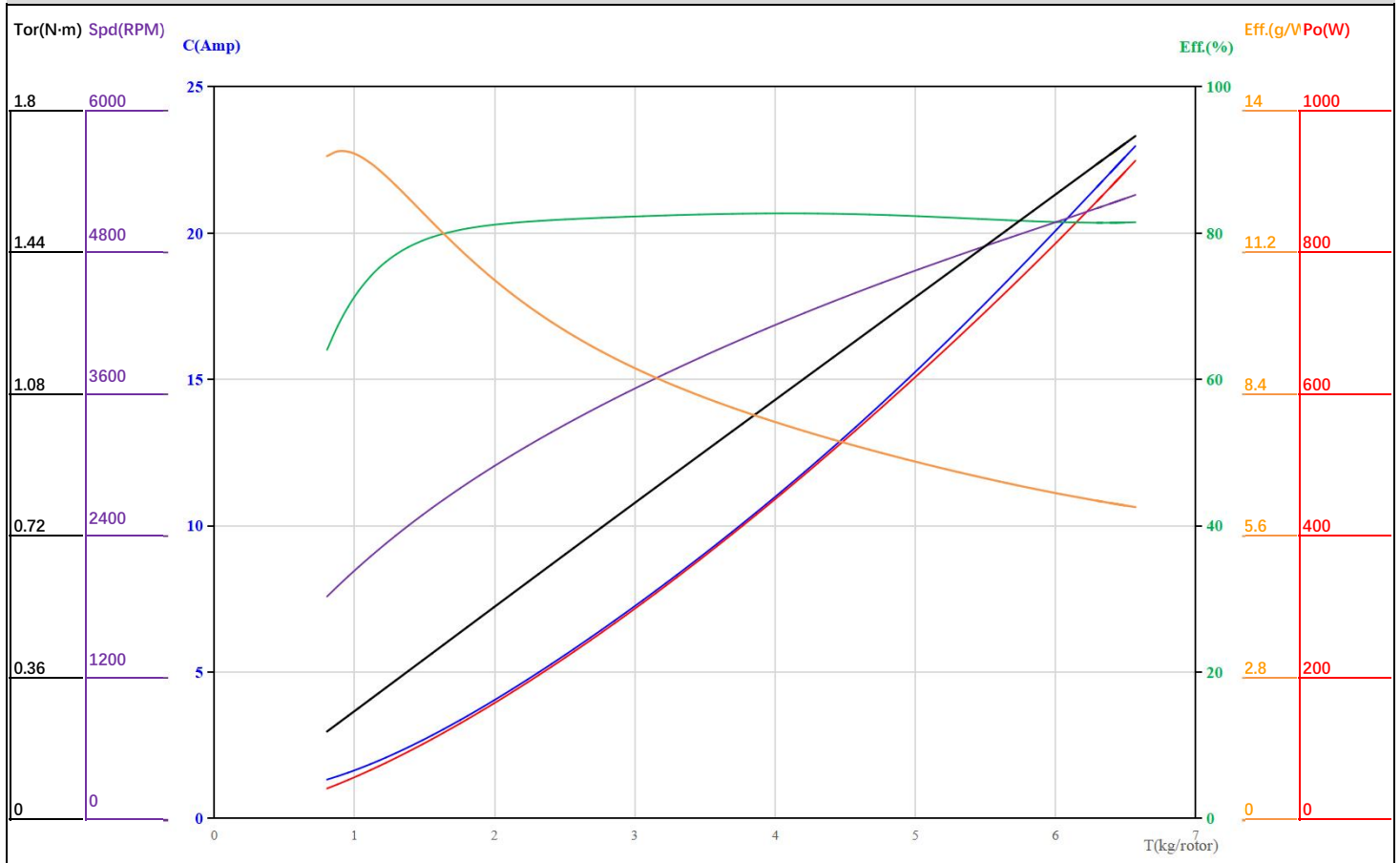
Model	M6210 HighProt-130V	Protection level	IP45
Motor Size	Φ67.7*H33.1mm	Slot& Pole	24N28P
Stator Size	Φ62*H10mm	Dynamic balance	≤8mg
Stator process	High standard silicon steel sheet, rust proof, 180°C high temperature resistance paint-coat	Bearing	Water proof bearing
Enamelled wire	200°C	Motor axle diameter	Φ8mm
Magnet	150°C	Props mounting dimensions	4*M3@D18mm, 4*M3@D20mm
Isolation test	500V AC high voltage resistance test	Motor mounting dimensions	4*M4@D25mm
Rated power input	360W	Rated power output	306W

Specification II

KV	130
Battery(LiPo)	LiPo-12S
No-load current	2.1A
Maximum current (Non-hermetic Ambient Temperature ≤ 25°C)	23A
Max power	1100W
Max thrust	6.5kg
Resistance	142mΩ
Wire Size	16AWG
Wire length	55mm
Weight (With wire)	229g

130KV+MSC 22x7.8 Load performance parameters

Graph

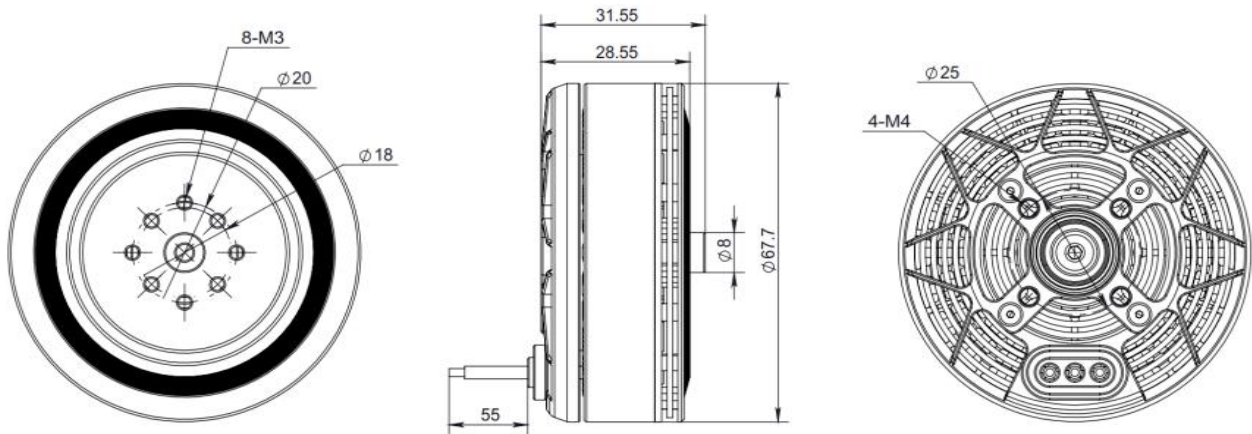


Motor Propeller Pull Test Data

Voltage(V)	Propeller	Throttle(%)	Thrust(g)	Current(A)	Power Input(W)	Speed(RPM)	Efficiency(g/W)	Torque(N-m)	Power Output(W)	Temperature(°C)
48V (12S LiPo)	MSC 22x7.8	33%	955	1.6	74.8	1983	12.8	0.25	63.6	
		35%	1115	1.9	88.9	2147	12.5	0.29	75.6	
		37%	1225	2.1	99.7	2254	12.3	0.32	84.7	
		39%	1385	2.4	116.7	2400	11.9	0.36	99.2	
		42%	1635	3.0	146.1	2612	11.2	0.43	124.2	
		45%	1895	3.7	179.8	2814	10.5	0.49	152.8	
		48%	2235	4.7	227.8	3054	9.8	0.58	193.6	
		51%	2505	5.6	268.5	3230	9.3	0.65	228.2	
		54%	2765	6.4	309.6	3389	8.9	0.72	263.2	
		57%	3060	7.5	358.3	3559	8.5	0.79	304.5	
		60%	3300	8.3	399.4	3691	8.3	0.85	339.5	
		63%	3695	9.8	470.1	3896	7.9	0.95	399.6	
		66%	3935	10.7	515.0	4014	7.6	1.01	437.7	
		69%	4305	12.2	587.0	4189	7.3	1.11	499.0	
		72%	4575	13.4	641.9	4310	7.1	1.17	545.6	
		75%	4820	14.4	693.5	4417	7.0	1.24	589.5	
		78%	5220	16.3	781.3	4583	6.7	1.34	664.1	
		81%	5505	17.6	846.5	4696	6.5	1.41	719.5	
		84%	5685	18.5	888.6	4767	6.4	1.46	755.3	
		87%	6010	20.1	966.4	4893	6.2	1.54	821.4	
		90%	6335	21.8	1045.6	5019	6.1	1.62	888.7	
		100%	6570	23.0	1103.1	5113	6.0	1.68	937.6	

The above data is measured by HobbyWing laboratory at room temperature 25°C, sea level, change the throttle input adjustment, the motor housing temperature is 65% and the throttle runs for 10 minutes, for reference only.

Dimension figure



Recommended application combinations

Motor	M6210 HighProt
Propeller	MSC 22x7.8
ESC	XRotor Pro H60A 14S
Battery	12SLiPo
Takeoff weight / rotor	2-2.5kg
Takeoff weight of quadrotor	8-10kg