

HV-8120



基础参数 Specification

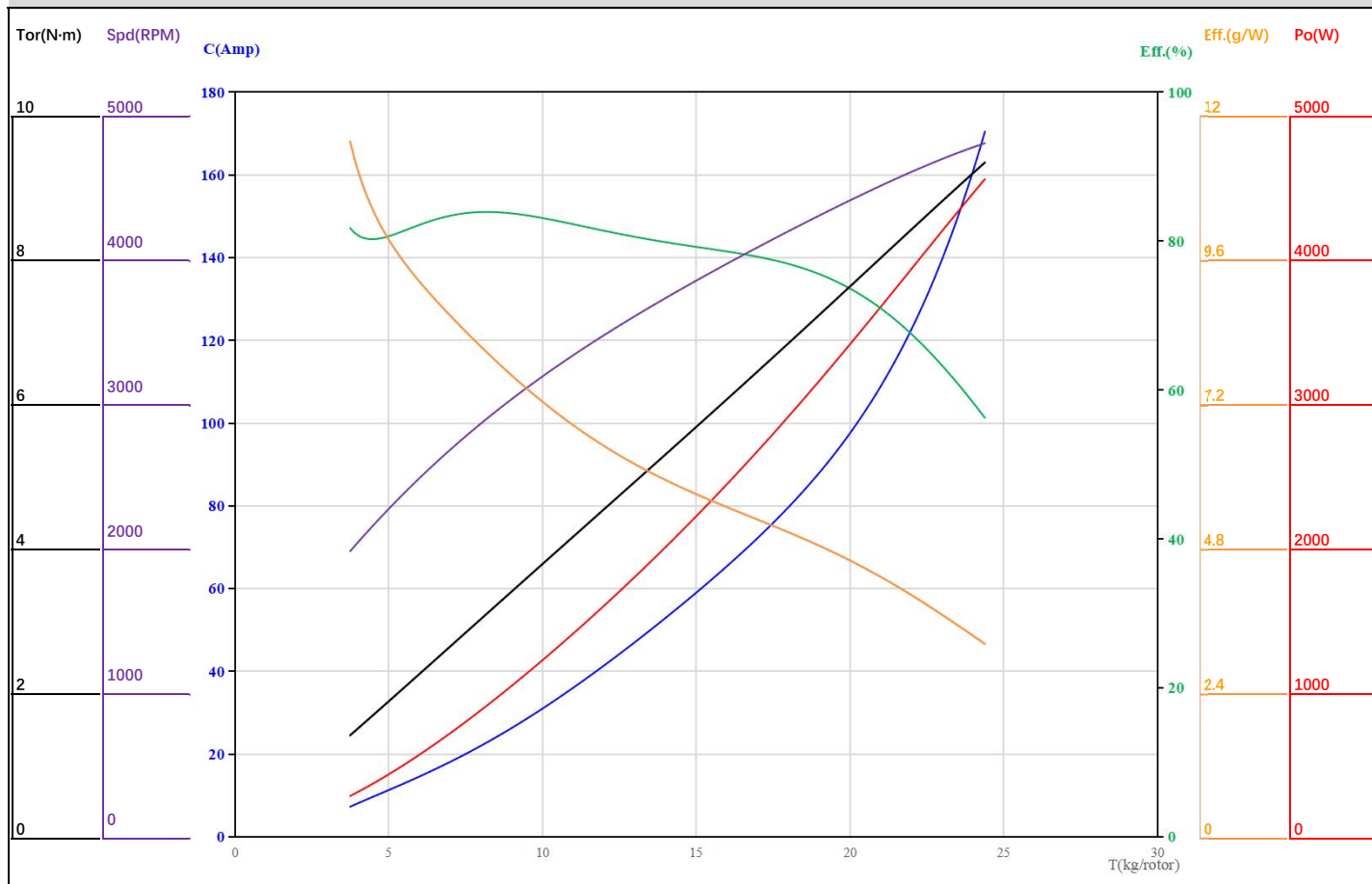
产品型号	HV-8120	防尘防水等级	IPX5
Model		Protection level	
电机尺寸	Φ87.7mm*H47.9mm	槽极数	36槽40极
Motor Size		Slot& Pole	36N 40P
定子尺寸	Φ81mm	电机整体动平衡标准	≤10mg
Stator Size		Dynamic balance	
定子工艺	高品质矽钢片，防锈处理，耐180℃高温涂覆	轴承型号	高品质防水轴承
Stator process	High standard silicon steel sheet, rust proof, 180℃ high temperature resistance paint-coat	Bearing	Water proof bearing
漆包线等级	200℃	出轴轴径	Φ10mm
Enamelled wire		Motor axle diameter	
磁铁等级	180℃	桨叶安装孔尺寸	4×M4@D23mm
Magnet		Props mounting dimensions	
线圈绝缘测试	500V交流耐压测试	电机安装孔尺寸	4×M4@D40mm
Isolation test	500V AC high voltage resistance test	Motor mounting dimensions	

技术参数 Specification

KV值	160
KV	
额定电压	LiPo-12S
Battery(LiPo)	
空载电流	4.1A
No-load current	
最大电流/A(非密闭环境温度 ≤25 °C)	170A
Maximum current (Non-hermetic Ambient Temperature ≤ 25°C)	
最大功率	7800W
Max power	
最大拉力	24.3 kg
Max thrust	
相间内阻	30.8mΩ
Resistance	
出线规格	12 AWG
Wire Size	
出线长度	850 mm
Wire length	
电机重量(含线)	630 g
Weight (With wire)	

160KV+32*10.5 "负载性能参数 Load performance parameters

曲线图 Graph

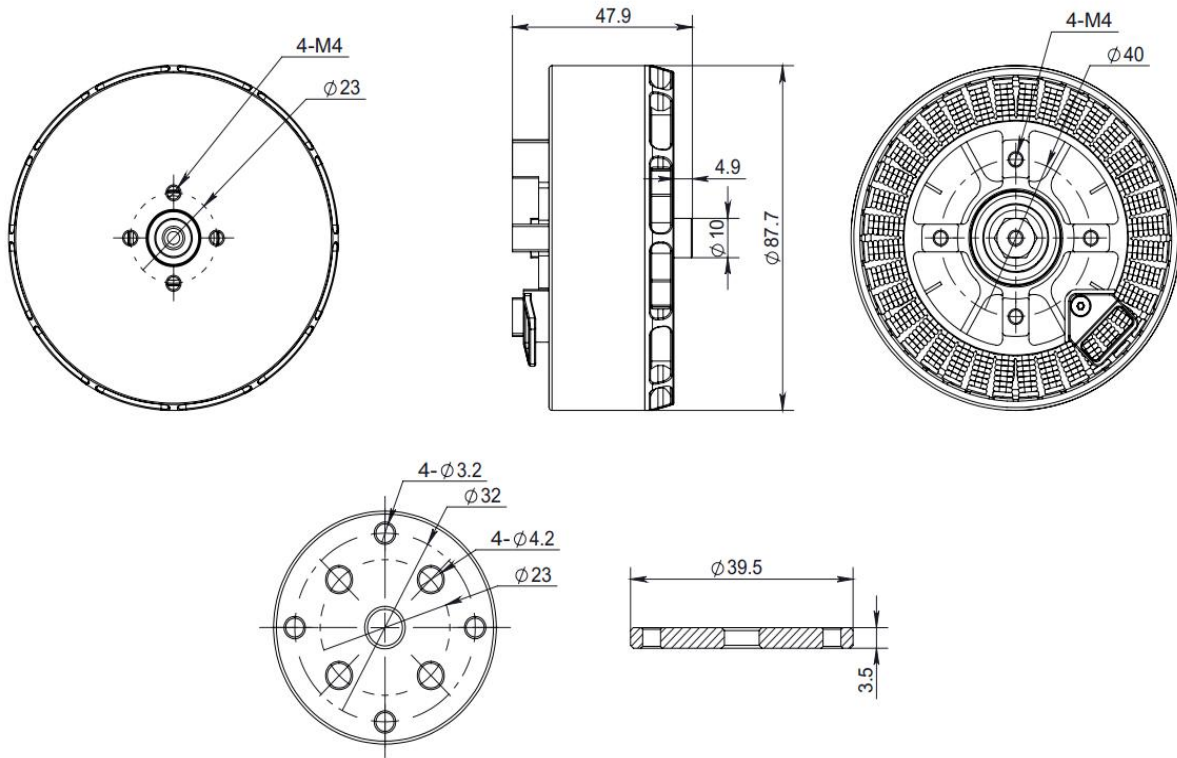


拉力数据表 Motor Propeller Pull Test Data

Voltage(V) 工作电压	Propeller 螺旋桨	Throttle(%) 油门	Thrust(g) 拉力	Current(A) 电流	Power(W) 输入功率	Speed(RPM) 转速	Efficiency(g/W) 力效	Torque(N-m) 扭矩	Temperature(°C) 电机温度
46V (12S LiPo)	32*10.5 "	33%	3902	7.8	357.5	1953	10.9	1.42	12.75kg-110°C
		35%	4495	9.7	445.1	2090	10.1	1.63	
		37%	5070	11.5	529.6	2216	9.6	1.84	
		39%	5637	13.3	614.4	2334	9.2	2.05	
		42%	6486	16.2	747.6	2502	8.7	2.36	
		45%	7350	19.4	894.0	2662	8.2	2.68	
		48%	8245	23.0	1059.1	2816	7.8	3.01	
		51%	9177	27.1	1246.9	2966	7.4	3.36	
		54%	10150	31.7	1459.6	3113	7.0	3.72	
		57%	11165	36.9	1697.6	3256	6.6	4.09	
		60%	12216	42.6	1959.6	3396	6.2	4.48	
		63%	13296	48.7	2242.7	3532	5.9	4.87	
		66%	14396	55.3	2544.3	3664	5.7	5.28	
		69%	15504	62.2	2862.8	3792	5.4	5.69	
		72%	16608	69.5	3199.5	3915	5.2	6.10	
		75%	17693	77.3	3558.6	4033	5.0	6.51	
		78%	18746	85.7	3947.6	4145	4.7	6.91	
		81%	19754	95.0	4374.9	4248	4.5	7.29	
		84%	20704	105.3	4847.6	4343	4.3	7.66	
		87%	21586	116.6	5368.2	4427	4.0	8.00	
		90%	22391	128.9	5932.6	4499	3.8	8.30	
		100%	24391	170.5	7848.9	4657	3.1	9.06	

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

尺寸图 Dimension figure



应用搭配推荐 Recommended application combinations

旋翼电机 Motor	HV-8120
旋翼桨叶 Propeller	GP32*10.5
搭配电调 ESC	XRotor Pro-H150A-14S / XRotor Pro-H200A-14S
电池电压 Battery	12S LiPo
单轴应用拉力区间 Takeoff weight / rotor	10~12kg
四轴最大起飞重量 Takeoff weight of quadrotor	40~50kg