

HW-X9 动力套技术参数

HW-X9 Technical Parameters

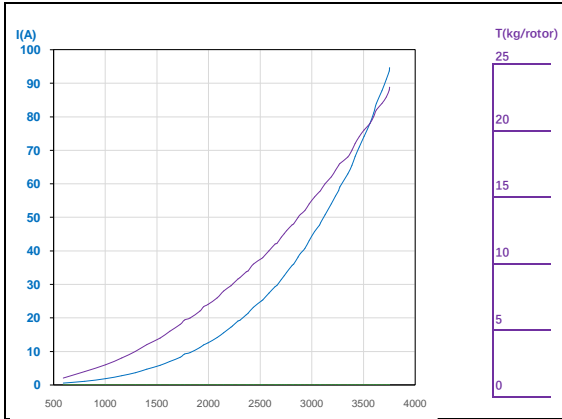
技术参数 Technical Parameters

最大拉力 (46V) Max Thrust	22.3 Kg
推荐锂电节数 Recommended Battery	12-14S LiPo
推荐起飞重量 Recommended Takeoff Weight	7-11 Kg
动力总成重量 Total Weight	1470g
适用碳管尺寸 Powertrain Arm Tube Outer Diameter	Φ40/45mm
适用环境温度 Operating Temperature	-20~50°C
防护等级 Ingress Protection	IPX6

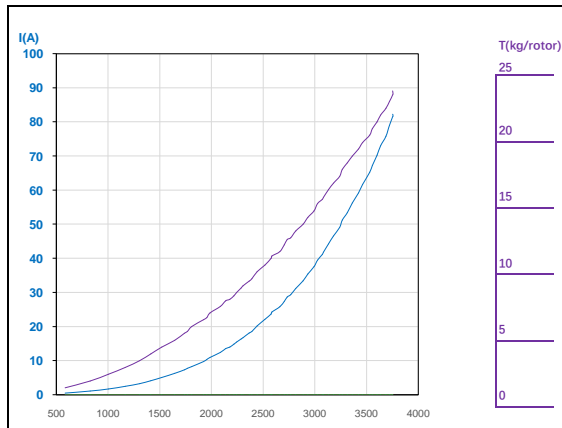
电机 Motor

定子尺寸 Stator Size	9616
KV值 KV	110 rpm/V
电机外径 Motor Size	Φ104

负载性能参数 Load performance parameters



以上数据为室温 25°C、海平面高度的环境下变化油门输入调节拉力测得。
The above data is measured by changing the throttle input to adjust the tension under the environment of 25°C and sea level.



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电调 ESC

型号 ESC	120A-FOC
PWM输入信号电平 PWM Input Signal Level	3.3V/5V
工作脉宽 Throttle Pulse Width	1100-1940μs
工作频率 Compatible signal frequencies	50-500Hz
最大允许电压 Max Allowable Voltage	61V
最大持续电流 (散热良好) Maximum peak current (Continuous)	50A
最大允许电流 (峰值3秒) Maximum peak current (<3s)	120A

桨叶 Propeller

直径/螺距 Diameter× Thread Pitch	34.7*11inch
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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) 效率
46V (12S LiPo)	34.7*11 Inch Foldable Propeller	40%	4,840	9.1	425.1	1766	11.38
		45%	5,829	11.9	551.9	1952	10.56
		50%	6,996	15.5	718.4	2145	9.74
		52%	7,399	17.2	796.7	2216	9.29
		54%	7,892	19.1	882.9	2285	8.94
		56%	8,433	21.0	970.1	2366	8.69
		58%	8,999	23.2	1072.4	2434	8.39
		60%	9,415	25.1	1160.4	2515	8.11
		62%	10,000	27.4	1268.6	2585	7.88
		64%	10,551	29.6	1370.9	2661	7.70
		66%	11,289	32.6	1506.4	2734	7.49
		68%	11,935	35.7	1654.3	2810	7.21
		70%	12,704	39.2	1822.8	2890	6.97
		75%	14,417	47.7	2209.0	3075	6.53
		80%	16,371	58.0	2696.4	3261	6.07
		90%	20,495	83.9	3871.9	3626	5.29
100%	22,195	94.7	4361.6	3754	5.09		

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53.6V (14S LiPo)	34.7*11 Inch Foldable Propeller	40%	4,639	7.7	414.5	1767	11.19
		45%	5,643	10.3	555.3	1955	10.16
		50%	6,891	13.5	727.5	2139	9.47
		52%	7,260	14.8	799.7	2219	9.08
		54%	7,831	16.4	880.7	2289	8.89
		56%	8,335	18.1	972.2	2366	8.57
		58%	9,015	20.2	1085.0	2443	8.31
		60%	9,503	22.1	1187.0	2516	8.01
		62%	10,175	24.3	1307.2	2586	7.78
		64%	10,491	25.8	1389.9	2661	7.55
		66%	11,374	28.7	1544.1	2734	7.37
		68%	12,004	31.1	1676.3	2816	7.16
		70%	12,503	33.4	1800.2	2887	6.95
		75%	14,321	41.2	2221.4	3071	6.45
		80%	16,520	51.2	2754.0	3266	6.00
		90%	20,506	73.0	3921.9	3635	5.23
100%	22,269	82.3	4413.9	3752	5.05		