HW-X9 PLUS 动力套技术参数
HW-X9 PLUS Power System Techenical Parameters

技术参数 Technical Parameters

最大拉力(46V) Max Thrust	25kg
推荐锂电节数 Recommended Battery	12-14S LiPo
推荐起飞重量 Recommended Takeoff Weight	9-11kg/rotor
动力总成重量 Total Weight	2340g
适用碳管尺寸 Powertrain Arm Tube Outer Diameter	φ40mm/45mm
适用环境温度 Operating Temperature	-20-50℃
防护等级 Ingress Protection	IPX6

电调 ESC

型号 ESC	150A-FOC
PWM输入信号电平 PWM Input Signal Level	3.3V/5V
工作脉宽 Throttle Pulse Width	1050-1950 μs
工作频率 Signal frequency	50-500Hz
最大允许电压 Max Allowable Voltage	61V
持续电流（非密闭环境温度≤60 ℃） Continuous Current(Non-hermetic Ambient Temperature ≤60℃)	45A
最大电流（非密闭环境温度≤ 60℃） Maximum Current(Non-hermetic Ambient Temperature ≤60℃)	150A

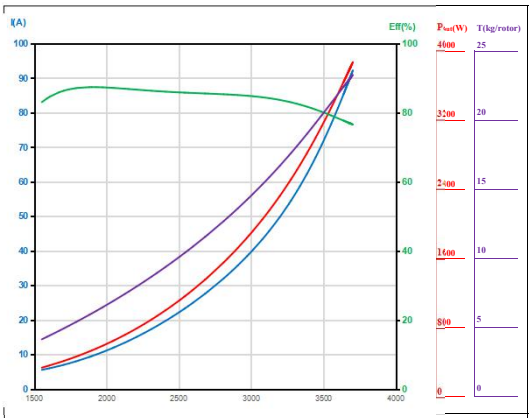
电机 Motor

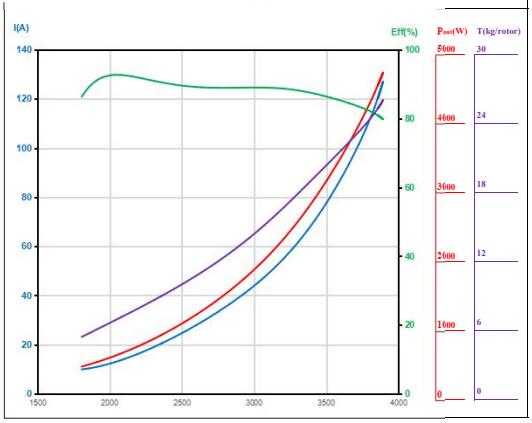
定子尺寸 Stator Size	Φ96 *20
KV值 KV	100 rpm/V
电机外径 Motor Size	Φ104 *46.8

桨叶 Propeller

直径/螺距 Diameter× Thread Pitch	36*19inch
桨叶总重量 Total weight(inc. adapter)	244g
单片桨叶重量 Single propeller weight	

负载性能参数 Load performance parameters





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)	HW 36*19Inch Foldable Propeller	40%	5460	9.5	509.3	1897	10.7
		42%	5915	10.7	573.2	1973	10.3
		44%	6405	12.0	646.3	2053	9.9
		46%	7045	13.9	747.6	2152	9.4
		48%	7780	16.2	870.9	2261	8.9
		50%	8405	18.3	980.8	2350	8.6
		52%	9180	20.9	1122.9	2454	8.2
		54%	9820	23.2	1244.5	2537	7.9
		56%	10045	24.0	1288.2	2565	7.8
		58%	11000	27.5	1478.5	2680	7.4
		60%	11165	28.2	1512.1	2699	7.4
		62%	12395	33.0	1771.2	2836	7.0
		64%	13060	35.7	1917.5	2906	6.8
		66%	13825	39.0	2091.9	2983	6.6
		68%	14790	43.3	2322.3	3076	6.4
		70%	16150	49.8	2670.5	3198	6.0
		72%	17080	54.6	2927.3	3276	5.8
		74%	17855	58.8	3154.6	3338	5.7
		76%	18880	64.8	3476.3	3418	5.4
		78%	19800	70.6	3787.6	3487	5.2
		80%	21340	81.4	4362.8	3600	4.9
		100%	22535	90.6	4860.2	3688	4.6

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
53.5V (14S LIPO)	HW 36*19Inch Foldable Propeller	40%	7365	16.0	738.9	2185	10.0
		42%	7985	18.3	845.4	2278	9.4
		44%	8555	20.6	949.8	2362	9.0
		46%	9145	23.0	1062.2	2445	8.6
		48%	9770	25.7	1184.3	2530	8.2
		50%	10590	29.2	1347.3	2635	7.9
		52%	11155	31.7	1460.4	2704	7.6
		54%	11550	33.4	1539.7	2750	7.5
		56%	12510	37.6	1733.4	2856	7.2
		58%	13625	42.5	1961.5	2970	6.9
		60%	14495	46.5	2144.5	3052	6.8
		62%	14895	48.4	2230.8	3088	6.7
		64%	15675	52.2	2404.9	3156	6.5
		66%	17055	59.4	2737.8	3272	6.2
		68%	18295	66.7	3072.7	3371	6.0
		70%	19530	74.8	3447.8	3469	5.7
		72%	20285	80.3	3699.5	3529	5.5
		74%	21240	87.7	4042.4	3604	5.3
		76%	22850	101.6	4677.6	3726	4.9
		78%	23540	107.8	4966.3	3775	4.7
		80%	24470	116.5	5363.8	3834	4.6
		100%	25080	122.2	5624.9	3868	4.5

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 are measured under the environment of room temperature (25° C) and sea level altitude, changing the throttle input to adjust the thrust force.