

# HW-X9 动力套技术参数

## HW-X9 Power System Technical Parameters

### 技术参数 Technical Parameters

最大拉力 (46V) Max Thrust	23kg
推荐锂电节数 Recommended Battery	12-14S
推荐起飞重量 Recommended Takeoff Weight	7-11kg
动力总成重量 Total Weight	
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

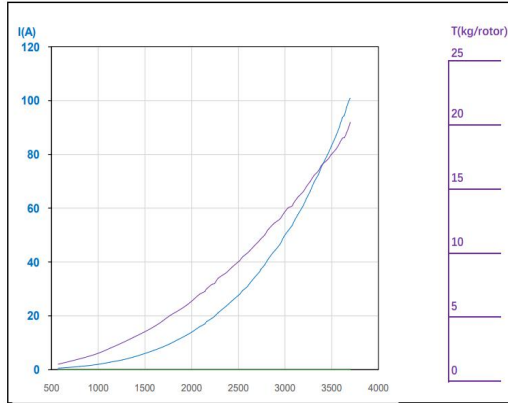
### 电调 ESC

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	1100-1940 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 °C) Continuous Current ( Non-hermetic Ambient Temperature ≤60°C)	45A
最大电流 (非密闭环境温度 ≤60 °C) Maximum Current ( Non-hermetic Ambient Temperature ≤60°C)	120A

### 桨叶 Propeller

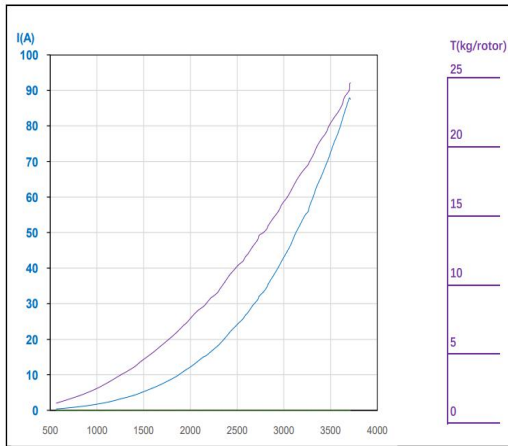
直径/螺距 Diameter × Thread Pitch	34*11inch
桨叶总重量 Total weight ( inc. adapter)	
单片桨叶重量 Single propeller weight	

### 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)	34 Inch Foldable Propeller	40%	5,005	9.6	444.2	1763	11.27
		45%	5,998	12.8	591.5	1946	10.14
		50%	7,248	17.0	789.4	2139	9.18
		52%	7,923	19.1	885.0	2218	8.95
		54%	8,495	21.2	982.8	2287	8.64
		56%	9,018	23.7	1094.8	2372	8.24
		58%	9,498	25.5	1183.8	2432	8.02
		60%	10,143	28.0	1301.2	2515	7.80
		62%	10,769	30.6	1422.9	2590	7.57
		64%	11,493	34.2	1578.6	2671	7.28
		66%	12,136	37.1	1716.7	2738	7.07
		68%	13,004	41.0	1896.7	2818	6.86
		70%	13,646	44.1	2048.1	2889	6.66
		75%	15,198	53.5	2470.0	3075	6.15
		80%	17,500	66.4	3073.1	3271	5.69
		90%	21,553	94.6	4373.8	3636	4.93
100%	22,994	100.8	4790.4	3697	4.80		

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.



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
53.6V (14S LIPO)	34 Inch Foldable Propeller	40%	5,005	8.4	453.7	1770	11.03
		45%	6,136	11.4	616.7	1955	9.95
		50%	7,289	15.0	805.4	2139	9.05
		52%	7,901	16.4	889.1	2216	8.89
		54%	8,301	18.1	974.7	2290	8.52
		56%	8,994	20.2	1089.5	2366	8.25
		58%	9,672	22.6	1215.3	2439	7.96
		60%	10,226	24.5	1318.3	2513	7.76
		62%	10,801	26.8	1439.7	2589	7.50
		64%	11,512	29.5	1586.6	2666	7.26
		66%	12,312	32.1	1726.7	2736	7.13
		68%	12,747	34.5	1858.5	2815	6.86
		70%	13,496	37.7	2034.8	2883	6.63
		75%	15,503	47.0	2528.0	3079	6.13
		80%	17,272	56.0	3029.5	3259	5.70
		90%	21,513	81.7	4388.6	3625	4.90
100%	23,038	87.5	4768.8	3714	4.83		

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.