

HW-X6

HW-X6 Power System Technical Parameters

Technical Parameters

(46V) Max Thrust	11.3kg
Recommended Battery	12S
Recommended Takeoff Weight	3-5kg
Total Weight	765g
Powertrain Arm Tube Outer Diameter	φ 30mm
Operating Temperature	- 20~50°C
Ingress Protection	IPX6

Motor

Stator Size	φ 62 *15mm
KV	180rpm/V
Motor Size	φ 69.4

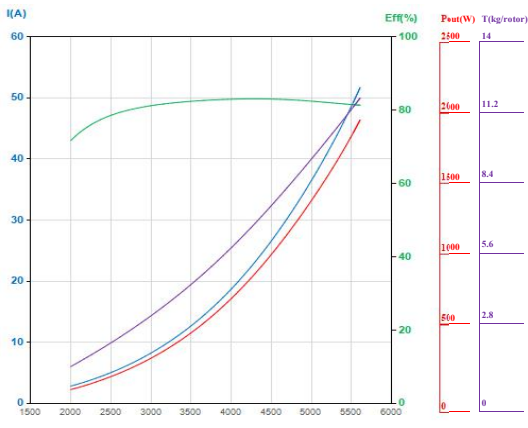
ESC

ESC	80A-FOC
PWM Input Signal Level	3.3V/5V
Throttle Pulse Width	1100~1940 μs
Signal frequency	50~500Hz
Max Allowable Voltage	61V
Continuous Current (Non-hermetic Ambient Temperature ≤60°C)	25A
Maximum Current (Non-hermetic Ambient Temperature ≤60°C)	80A

Propeller

Diameter × Thread Pitch	23*8.8inch
total weight (inc. adapter)	107g
Single propeller weight	33.5g

Load performance parameters



Voltage(V)	Propeller	Throttle (%)	Thrust(g)	Current(A)	Power(W)	Speed(RPM)	Efficiency(g/W)
46V (12S LIPO)	HW 23*8.8 Inch Foldable Propeller	40%	2645	6.4	295.7	3092	8.9
		42%	2895	7.2	333.1	3233	8.7
		44%	3175	8.2	375.9	3384	8.4
		46%	3415	9.0	414.0	3509	8.2
		48%	3685	10.0	458.9	3644	8.0
		50%	3975	11.1	509.9	3783	7.8
		52%	4225	12.1	556.2	3899	7.6
		54%	4575	13.6	625.0	4054	7.3
		56%	4745	14.3	660.1	4127	7.2
		58%	5160	16.3	750.0	4298	6.9
		60%	5570	18.4	844.2	4459	6.6
		62%	5845	19.8	910.1	4562	6.4
		64%	6110	21.2	975.3	4659	6.3
		66%	6435	23.0	1057.2	4775	6.1
		68%	6875	25.5	1170.8	4927	5.9
		70%	7165	27.1	1247.1	5025	5.7
		72%	7595	29.6	1362.2	5166	5.6
		74%	8055	32.4	1488.2	5313	5.4
		76%	8320	34.0	1562.6	5396	5.3
		78%	8815	37.1	1706.8	5547	5.2
80%	9170	39.5	1816.6	5653	5.0		
90%	10285	48.4	2227.0	5963	4.6		
100%			11315	60.4	2781	6198	4.1

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.