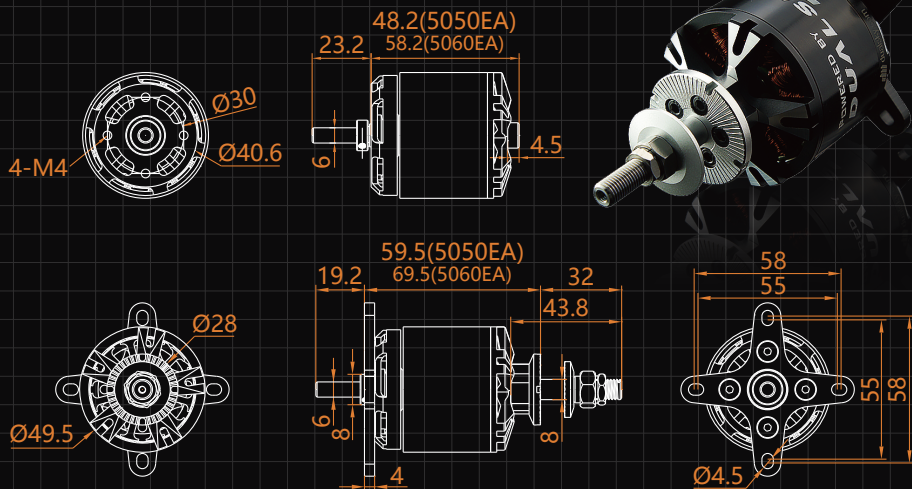


Dimension 尺寸图



Specification 规格

EA V3 SERIES	XM5050EA-12	XM5050EA-14	XM5050EA-29SE
SKU (商品编码)	51863	51864	52119
KV (KV值)	610	515	250
Weight(g) (重量, 不含配件)	290	292	290
Dimensions(D x L)[mm] (尺寸)	49.5x48.2		
Diameter of Shaft (mm) (轴径)	6.0		
Spec. of Mounting Holes (安装孔距)	4-M3, 30/30		
Input Connectors (输入插头)	DB4		
Dimensions of Stator(mm) (定子尺寸)	4120		
Slots & Poles (槽数, 极数)	12N14P		
Ri(mOhm) (电机内阻)	14.2	18.5	76
Io@10V (A) (空载电流)	1.8	1.5	0.43
No. of Cells(LiPo) (适用电池)	5~6	5~6 ¹	10..12 ¹
Efficiency Current[A] (效率电流)	35.0	32.5	19.5
Burst Current (15S)[A] (峰值电流)	70	65	40
Peak Power(15S)[W] (峰值功率)	1400	1560	1776
Peak Torque [N·M] (峰值扭矩)	1.37	1.51	1.91
Recommended ESC (推荐调速器)	SUMMIT 100	SUMMIT 100	SUMMIT 100HV
Recommended Propeller (螺旋桨)	5S ¹ : 15x8	5S: 16x8E, 17x8E	10S: 15x10E, 16x8E
	6S: 12x10E, 14x6E	6S ¹ : 15x8E, 16x8E ²	12S ¹ : 15x8E, 15x10E ²
Application (适用级别)	70E, 50-.60 2-stroke. Up to .82 4st		12S HV type for UAV

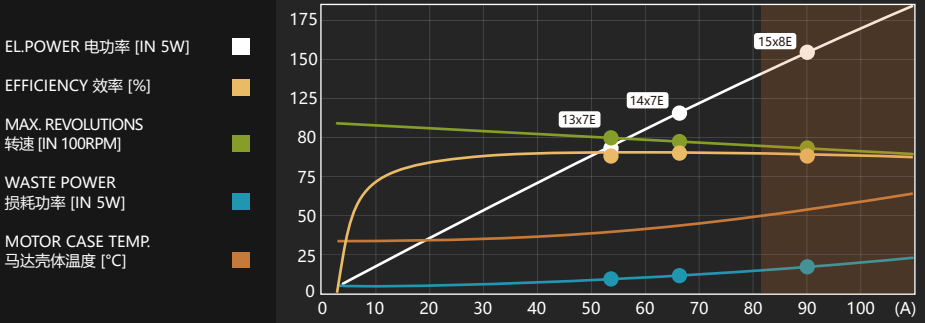
注: ¹ Suggested working voltage(NOC) 建议工作电压(串联节数)

² Good throttle management needed 可在有效控制油门的情况下使用

18.5V

XM5050EA-12 (610KV)

Motor @ Optimum Efficiency 优化效率点



Voltage 电压 (V)	Propeller 转速 (RPM)	Throttle 油门 (%)	Current 电流 (A)	Voltage 电压 (V)	el. Power 电功率 (W)	Efficiency 效率 (%)	Thrust 拉力 (g)	Spec. Thrust 桨效率 (g/W)
13x7E								
5600	53		9.5	18.4	173.7	87.5	1298	7.5
6300	60		13.4	18.3	243.9	88.7	1642	6.7
7000	68		18.2	18.3	331.5	89.6	2028	6.1
7700	75		24.2	18.2	438.6	90.1	2453	5.6
8400	82		31.5	18.1	567.3	90.4	2920	5.1
9100	90		40.2	18	719.7	90.6	3427	4.8
9800	98		50.6	17.9	897.9	90.7	3974	4.4
9963	100		53.4	17.8	945.5	90.5	4107	4.3
14x7E								
5600	54		12.6	18.3	229.8	89	1621	7.1
6300	61		17.9	18.3	324.3	89.8	2051	6.3
7000	69		24.5	18.2	442.6	90.2	2532	5.7
7700	76		32.7	18.1	587.6	90.5	3064	5.2
8400	84		42.7	18	762.1	90.5	3647	4.8
9100	93		54.9	17.8	969.1	90.5	4280	4.4
9704	100		67.4	17.7	1180	90.2	4867	4.1
15x8E								
5600	55		19	18.3	343.4	89.7	2278	6.6
6300	63		27.1	18.2	487.7	89.9	2883	5.9
7000	71		37.5	18	669	89.9	3560	5.3
7700	79		50.4	17.9	891.9	89.7	4307	4.8
8400	88		66.5	17.7	1161.2	89.5	5126	4.4
9100	98		86.1	17.4	1481.5	89.2	6016	4.1
9260	100		91.5	17.4	1569.1	88.9	6230	4

18.5V
(5S LIPO)

22.2V

XM5050EA-12 (610KV)

Motor @ Optimum Efficiency 优化效率点



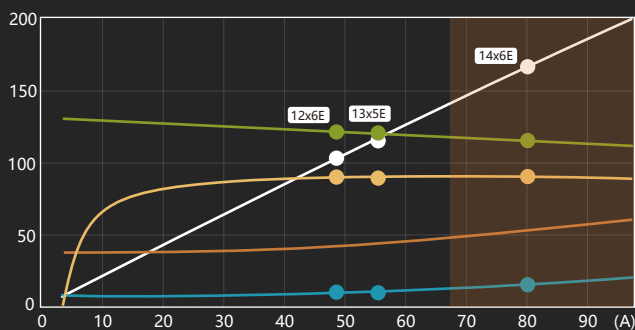
EL.POWER 电功率 [IN 5W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 5W]

MOTOR CASE TEMP.
马达壳体温度 [°C]

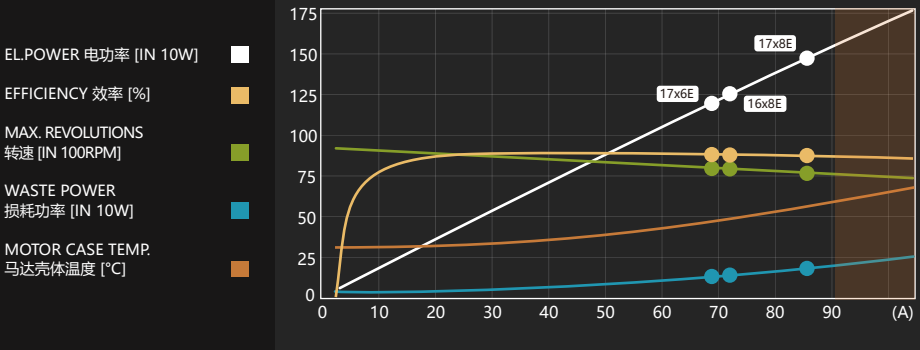


Voltage 电压 (V)	Propeller 转速 (RPM)	Throttle 油门 (%)	Current 电流 (A)	Voltage 电压 (V)	el. Power 电功率 (W)	Efficiency 效率 (%)	Thrust 拉力 (g)	Spec. Thrust 桨效率 (g/W)
22.2V (6S LIPO)	12x6E							
	6300	49	7.2	22.1	157.7	85.4	1107	7
	7200	57	10.5	22	230.5	87.2	1446	6.3
	8100	64	14.8	22	323.8	88.4	1830	5.7
	9000	72	20.2	21.9	440.2	89.2	2260	5.1
	9900	80	26.8	21.8	582.4	89.7	2734	4.7
	10800	88	34.9	21.7	753.2	90.1	3254	4.3
	11700	96	44.6	21.5	955.3	90.3	3819	4
	12140	100	50	21.4	1067.5	90.1	4111	3.9
	13x5E							
	6300	50	8.1	22.1	178.5	86.6	1173	6.6
	7200	57	11.9	22	261.7	88.2	1532	5.9
	8100	65	16.9	21.9	368.5	89.2	1939	5.3
	9000	72	23.1	21.9	501.8	89.8	2394	4.8
	9900	80	30.7	21.7	664.9	90.2	2897	4.4
10800	88	40.1	21.6	860.9	90.5	3448	4	
11700	97	51.3	21.4	1092.9	90.6	4046	3.7	
12022	100	55.9	21.4	1187.7	90.4	4272	3.6	
14x6E								
6400	51	13.4	22	292.5	89.4	1815	6.2	
7200	58	19	21.9	413.4	90.1	2297	5.6	
8000	65	26.1	21.8	564.7	90.5	2835	5	
8800	73	34.9	21.7	750.2	90.6	3431	4.6	
9600	80	45.6	21.5	973.5	90.7	4083	4.2	
10400	88	58.6	21.3	1238.5	90.6	4791	3.9	
11200	97	74.1	21.1	1548.9	90.5	5557	3.6	
11516	100	81.4	21	1691.9	90.2	5875	3.5	

18.5V

XM5050EA-14 (515KV)

Motor @ Optimum Efficiency 优化效率点



Voltage 电压 (V)	Propeller 转速 (RPM)	Throttle 油门 (%)	Current 电流 (A)	Voltage 电压 (V)	el. Power 电功率 (W)	Efficiency 效率 (%)	Thrust 拉力 (g)	Spec. Thrust 桨效率 (g/W)
16x8E								
4800	56	56	15.5	18.3	281.2	89.3	2031	7.2
5400	64	64	22.1	18.2	399.1	89.5	2571	6.4
6000	72	72	30.4	18.1	547.2	89.6	3174	5.8
6600	80	80	40.9	18	729.3	89.5	3841	5.3
7200	89	89	53.7	17.8	949.2	89.2	4571	4.8
7800	98	98	69.3	17.6	1211	88.9	5364	4.4
7923	100	100	73.2	17.6	1274.3	88.7	5534	4.3
17x6E								
4800	56	56	14.8	18.3	268.8	89.2	1827	6.8
5400	64	64	21	18.2	381.2	89.6	2313	6.1
6000	71	71	29	18.1	522.4	89.7	2855	5.5
6600	80	80	38.9	18	695.9	89.6	3455	5
7200	88	88	51.1	17.9	905.3	89.4	4112	4.5
7800	97	97	65.9	17.7	1154.5	89.2	4826	4.2
7966	100	100	70.8	17.6	1235.1	88.9	5033	4.1
17x8E								
4500	53	53	16.3	18.3	296.5	88.9	2142	7.2
5000	60	60	22.5	18.2	406.3	89	2644	6.5
5500	67	67	30.1	18.1	541.3	88.9	3199	5.9
6000	74	74	39.5	18	704.4	88.7	3807	5.4
6500	81	81	50.8	17.9	898.6	88.4	4468	5
7000	89	89	64.4	17.7	1126.8	88	5182	4.6
7500	97	97	80.5	17.5	1392.2	87.7	5949	4.3
7672	100	100	87.1	17.4	1498.4	87.3	6225	4.2

18.5V
(5S LIPO)

22.2V

XM5050EA-14 (515KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



Voltage
电压



Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

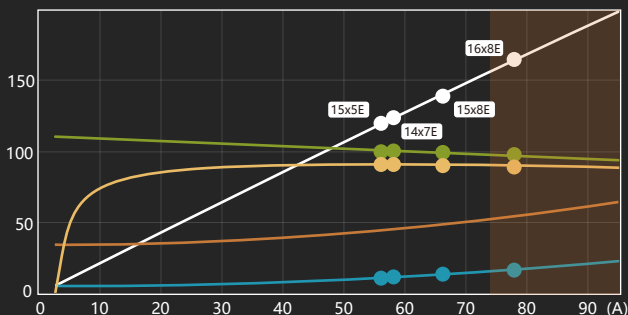
EL. POWER 电功率 [IN 2W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 2W]

MOTOR CASE TEMP.
马达壳体温度 [°C]



Voltage 电压 (V)	Propeller 转速 (RPM)	Throttle 油门 (%)	Current 电流 (A)	Volage 电压 (V)	el. Power 电功率 (W)	Efficiency 效率 (%)	Thrust 拉力 (g)	Spec. Thrust 桨效率 (g/W)	
22.2V (6S LIPO)					14x7E				
		7000	67	20.3	21.9	442.5	90.2	2532	5.7
		7700	75	27.1	21.8	587.1	90.5	3064	5.2
		8400	82	35.3	21.7	761.2	90.6	3647	4.8
		9100	90	45.2	21.5	967.5	90.7	4280	4.4
		9800	98	57	21.3	1209.1	90.6	4964	4.1
		9938	100	59.8	21.3	1265.2	90.4	5104	4
						15x5E			
		7000	67	19.1	21.9	417	90.1	2225	5.3
		7700	74	25.5	21.8	553	90.5	2692	4.9
		8400	82	33.2	21.7	716.5	90.7	3204	4.5
		9100	90	42.5	21.6	910.2	90.7	3760	4.1
		9800	98	53.5	21.4	1137.1	90.7	4361	3.8
		9992	100	57	21.3	1209	90.5	4533	3.7
					15x8E				
	7000	68	22.9	21.9	499.2	90.3	2670	5.3	
	7700	75	30.5	21.8	663.2	90.5	3231	4.9	
	8400	83	39.8	21.7	860.7	90.6	3845	4.5	
	9100	91	51	21.6	1095	90.5	4512	4.1	
	9800	99	64.4	21.4	1369.7	90.4	5233	3.8	
	9903	100	66.8	21.4	1418.7	90.1	5343	3.8	
					16x8E				
	6300	61	20.9	21.9	456.1	90.1	2703	5.9	
	7000	69	28.7	21.8	624.8	90.2	3337	5.3	
	7700	76	38.5	21.7	831.9	90.2	4038	4.9	
	8400	84	50.4	21.6	1081.8	90.1	4806	4.4	
	9100	93	64.9	21.4	1378.8	89.8	5640	4.1	
	9680	100	79.3	21.2	1670.6	89.4	6382	3.8	

37V

XM5050EA-29SE (250KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



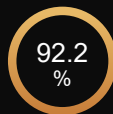
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

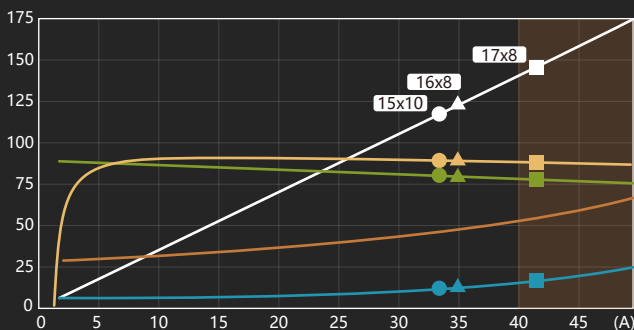
EL.POWER 电功率 [IN 10W] ■

EFFICIENCY 效率 [%] ■

MAX. REVOLUTIONS
转速 [IN 100RPM] ■

WASTE POWER
损耗功率 [IN 10W] ■

MOTOR CASE TEMP.
马达壳体温度 [°C] ■



Voltage 电压 (V)	Propeller 螺旋桨 (RPM)	Throttle 油门 (%)	Current 电流 (A)	el. Power 输入功率 (W)	Efficiency 效率 (%)	Thrust 静拉力 (g)	Spec. Thrust 螺旋桨效率 (g/W)
37V (10S LIPO)	15x10						
	4200	49	4.9	178.8	90.8	1602	9
	4800	57	7.2	265.9	91.1	2092	7.9
	6000	73	14.2	519.8	91.1	3269	6.3
	6600	81	19.1	693.6	90.8	3956	5.7
	7200	89	25	903.6	90.5	4708	5.2
	7956	100	34.3	1228.5	89.9	5749	4.7
	16x8						
	4200	49	5	185.2	90.8	1555	8.4
	4800	57	7.5	275.5	91.1	2031	7.4
	6000	73	14.8	539	91	3174	5.9
	6600	81	19.8	719.5	90.7	3841	5.3
	7200	89	26	937.6	90.4	4571	4.9
	7928	100	35.3	1261.5	89.8	5542	4.4
	17x8						
	4500	54	7.9	291	90.6	2142	7.4
	5000	61	10.9	399.8	90.4	2644	6.6
	5500	67	14.6	533.6	90.2	3199	6
	6500	81	24.6	887.9	89.5	4468	5
	7000	89	31	1114.3	89	5182	4.7
	7716	100	42.4	1507.3	88.3	6296	4.2

44.4V

XM5050EA-29SE (250KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



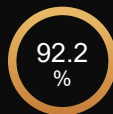
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

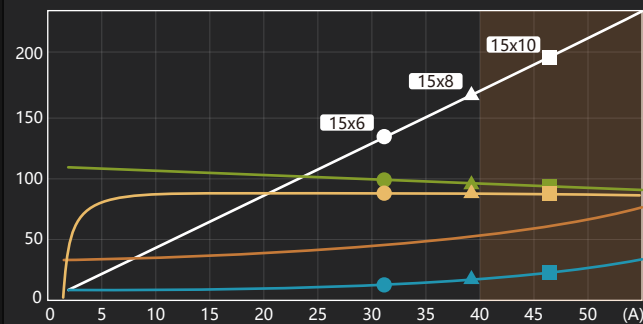
EL.POWER 电功率 [IN 10W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 10W]

MOTOR CASE TEMP.
马达壳体温度 [°C]



Voltage 电压 (V)	Propeller 螺旋桨 (RPM)	Throttle 油门 (%)	Current 电流 (A)	el. Power 输入功率 (W)	Efficiency 效率 (%)	Thrust 静拉力 (g)	Spec. Thrust 螺旋桨效率 (g/W)
44.4V (12S LIPO)	15x6						
	5600	54	5.7	252.2	91.6	1709	6.8
	6300	62	8.1	357.8	91.9	2163	6
	7000	69	11.2	490.1	92	2670	5.4
	7700	76	14.9	652.4	92	3231	5
	9100	92	24.9	1080.1	91.7	4512	4.2
	9789	100	31.3	1351	91.4	5221	3.9
	15x8						
	5600	55	7.6	336.2	91.6	2278	6.8
	6300	63	10.9	478.5	91.6	2883	6
	7000	70	15	657.3	91.5	3560	5.4
	7700	78	20.1	877.2	91.3	4307	4.9
	8400	86	26.4	1142.6	90.9	5126	4.5
	9535	100	39.4	1687.2	90.2	6606	3.9
	15x10						
	5600	56	9.6	422.1	91.2	2848	6.7
	6300	64	13.8	602.4	91	3604	6
	7000	72	19	829.4	90.6	4450	5.4
	7700	80	25.6	1108.9	90.2	5384	4.9
	8400	88	33.7	1447.1	89.8	6408	4.4
	9306	100	46.8	1987.9	89	7864	4