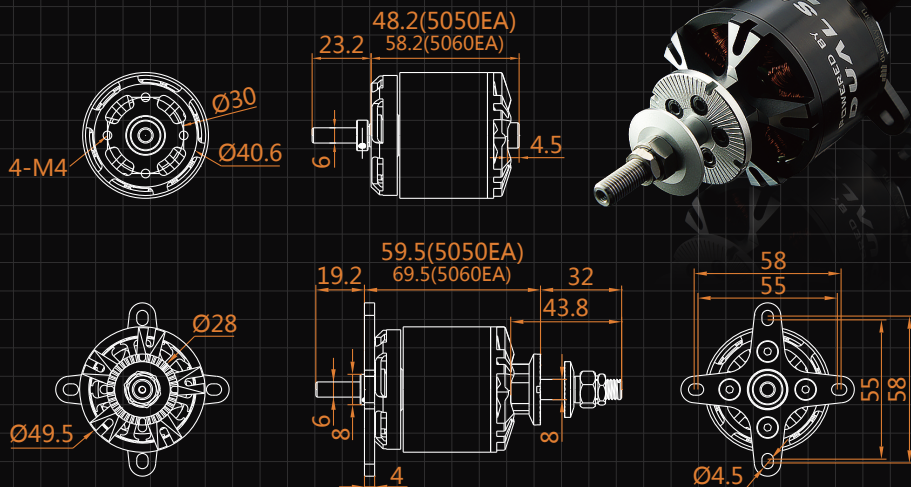


## Dimension 尺寸图



## Specification 规格

EA V3 SERIES	XM5050EA-12	XM5050EA-14
SKU (商品编码)	51863	51864
KV (KV值)	610	515
Weight(g) (重量, 不含配件)	290	292
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-M4, 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
Io@10V (A) (空载电流)	1.8	1.5
No. of Cells(LiPo) (适用电池)	5 <sup>1</sup> .6	5..6 <sup>1</sup>
Efficiency Current[A] (效率电流)	35.0	32.5
Burst Current(15S)[A] (峰值电流)	70	65
Peak Power(15S)[W] (峰值功率)	1400	1560
Peak Torque [N·M] (峰值扭矩)	1.37	1.51
Recommended ESC (推荐调速器)	SUMMIT 100	SUMMIT 100
Recommended Propeller (螺旋桨)	5S <sup>1</sup> : 15x8 6S: 12x10E, 14x6E	5S: 16x8E, 17x8E 6S <sup>1</sup> : 15x8E, 16x8E <sup>2</sup>
Application (适用级别)	70E,.50-.60 2-stroke. Up to .82 4st	

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

<sup>2</sup> 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



Current  
电流



Voltage  
电压



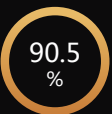
Revolutions  
转速



electric Power  
电功率



mech. Power  
机械功率



Efficiency  
效率

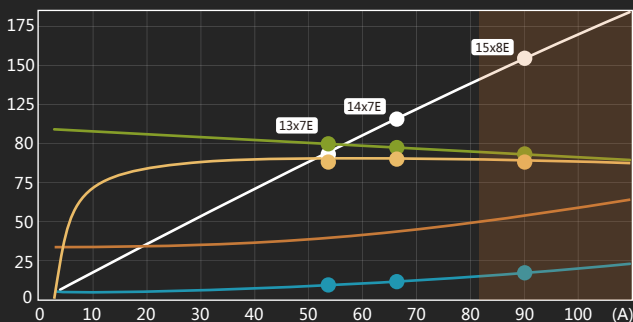
EL. POWER 电功率 [IN 5W]

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)
<b>13x7E</b>								
	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
<b>14x7E</b>								
	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
<b>15x8E</b>								
	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



Current  
电流



Voltage  
电压



Revolutions  
转速



electric Power  
电功率



mech. Power  
机械功率



Efficiency  
效率

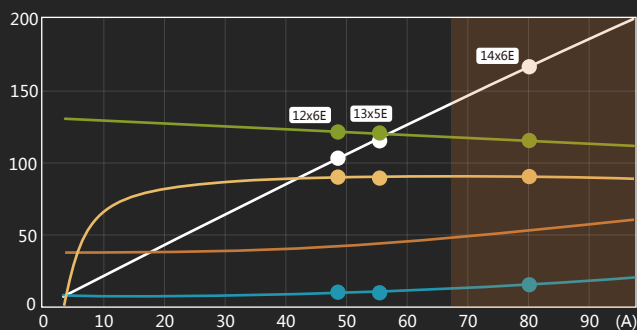
EL.POWER 电功率 [IN 5W]

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]

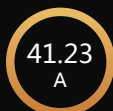


	Voltage 电压 (V)	Propeller 转速 (RPM)	Throttle 油门 (%)	Current 电流 (A)	Voltage 电压 (V)	el. Power 电功率 (W)	Efficiency 效率 (%)	Thrust 拉力 (g)	Spec. Thrust 桨效率 (g/W)
22.2V (6S LIPO)	<b>12x6E</b>								
	6300	49	7.2	22.1	157.7	85.4	1107	7	
	7200	57	10.5	22	230.5	87.2	1446	6.3	
	8100	64	14.8	22	323.8	88.4	1830	5.7	
	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	
	<b>13x5E</b>								
	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	
	<b>14x6E</b>								
	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



Current  
电流



Voltage  
电压



Revolutions  
转速



electric Power  
电功率



mech. Power  
机械功率



Efficiency  
效率

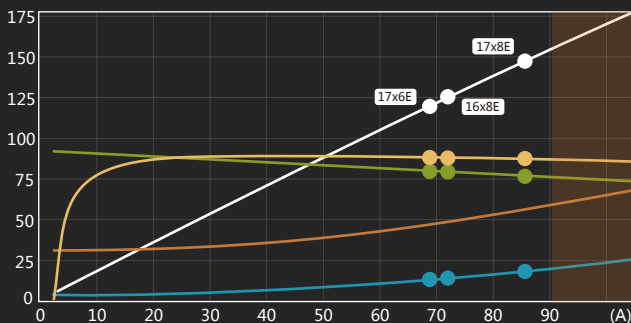
EL. POWER 电功率 [IN 10W] ■

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 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)
<b>16x8E</b>								
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
<b>17x6E</b>								
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
<b>17x8E</b>								
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

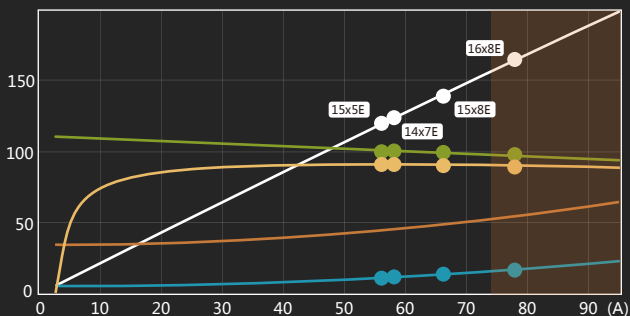
EL.POWER 电功率 [IN 2W]

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)	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)					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	