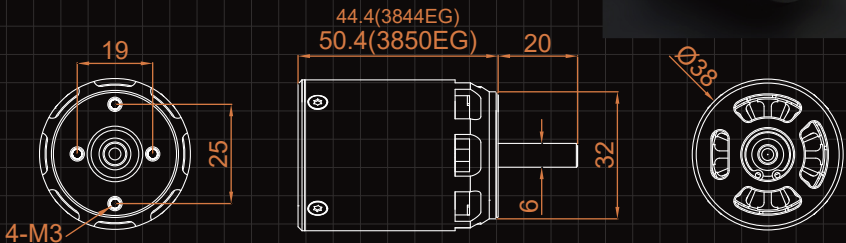


Dimension 尺寸图

Xmotor 38EG

EG Capsuled series outrunner w/ housing,
rear wire outlet!!



Specification 参数

NAME 型号	XM3844EG-10	XM3844EG-12	XM3850EG-8	XM3850EG-10
SKU 商品编码	52010	52011	52012	52013
RPM / V (KV) KV值	970	810	920	740
Weight (g) 重量	161		195	
Diameter (mm) 直径	D: Front Face 32, body 38		D: Front Face 32, body 38	
Length (mm) 长度	L: 44.4, 64.4 incl. shaft		L: 50.4, 70.4 incl. shaft	
Diameter of Shaft(mm) 轴径	6, hollow		6, hollow	
Pitch of holes (mm) 安装孔距	A:19, B:25		A:19, B:25	
Input Connectors 输入插头	GC3.5		GC3.5	
Slots & Poles 槽数, 极数	12N14P		12N14P	
Io@10V(A)空载电流	1.9	1.2	2.2	1.5
Resistance(Ri)(mOhm) 电机内阻	20.5	30.5	19	27
No. of Cells(LiPo) 适用电池	3.4	3.4	3.4	4.5
Max. Efficiency Current(A) 效率电流	23	20	28	24
Max. Burst Current (30S)[A] 峰值电流	45	40	55	47
Max. Power(30S)[W] 峰值功率	540 @12V, 720 @16V	640	660 @12V, 880 @16V	752
Torque (mNm) 扭矩	550	590	720	760
Recommended ESC 推荐调速器	XC6018BA-V2, XC-65-Lite	XC6018BA-V2, XC-65-Lite	XC6018BA-V2, XC-65-Lite	XC6018BA-V2, XC-65-Lite
Propeller 螺旋桨 (Glider use scene 滑翔机使用场景)	3S ¹ : 13x6 ² , 13x8E ² , 14x8E ²	3S: 14x6E ² , 14x8E ² , 15x6E ²	3S ¹ : 14x6E ² , 14x8E ² , 15x8E ²	4S ¹ : 13x8E ² , 14x8E ² , 15x8E ²
Applications 适用级别	For up to 2400 grams regular R/C gliders		For up to 3000 grams regular R/C gliders	

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

11.1V

XM3844EG-10 (970KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



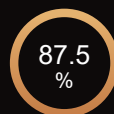
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

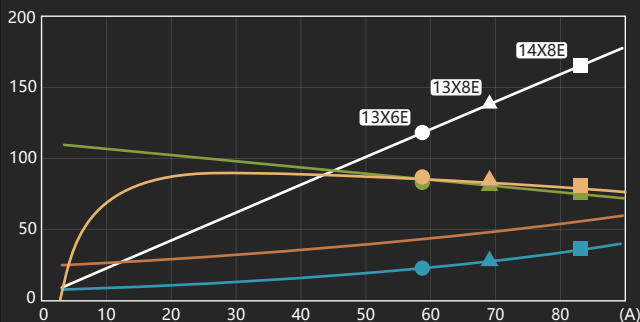
EL.POWER 电功率 [IN 5W]

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]

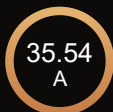


Voltage 电压 (V)	Propeller 螺旋桨 (RPM)	Throttle 油门 (%)	Current 电流 (A)	el. Power 输入功率 (W)	Efficiency 效率 (%)	Thrust 静拉力 (g)	Spec. Thrust 螺旋桨效率 (g/W)
11.1V (3S LIPO)	13x6E						
	4800	51	9.6	105.3	85.2	817	7.8
	5400	58	13.7	149	85.6	1034	6.9
	6600	73	25.2	272	85.7	1545	5.7
	7200	80	33.1	354.1	85.4	1839	5.2
	7800	89	42.5	452	85.1	2158	4.8
	8578	100	58	608.4	84.3	2610	4.3
	13x8E						
	4800	52	13	141.1	84.7	1090	7.7
	5400	60	18.6	201.1	84.6	1379	6.9
	6000	68	25.7	276.8	84.3	1703	6.2
	6600	76	34.7	370.5	83.9	2060	5.6
	7200	84	45.8	484.3	83.3	2452	5.1
	8189	100	70.1	726.1	82	3171	4.4
	14x8E						
	4500	50	14.6	158.9	83.3	1196	7.5
	5000	57	20.3	218.9	83	1477	6.7
	6000	71	36.1	383.6	81.8	2126	5.5
	6500	79	46.7	492	81.1	2496	5.1
	7000	87	59.5	620.2	80.4	2894	4.7
7744	100	83.9	857.1	79	3542	4.1	

14.8V

XM3844EG-10 (970KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



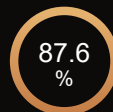
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

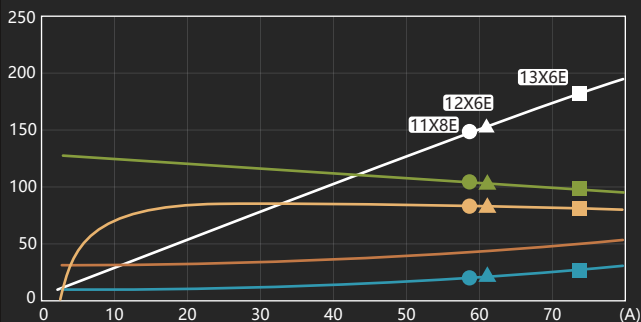
EL.POWER 电功率 [IN 5W]

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
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)

14.8V
(4S LIPO)

11x8E

6400	54	12.4	167.8	86.6	1174	7
7200	62	17.7	238	86.9	1485	6.2
8000	70	24.6	326.4	86.9	1834	5.6
8800	79	33.3	435.2	86.7	2219	5.1
9600	89	44.2	566.9	86.5	2640	4.7
10436	100	59	736.9	85.7	3120	4.2

12x6E

6300	54	12.6	170.1	86.5	1107	6.5
7000	60	17.3	232.7	86.7	1367	5.9
7700	68	23.3	309.7	86.7	1654	5.3
9100	84	39.8	513.5	86.4	2310	4.5
9800	92	50.8	643.8	86	2679	4.2
10331	100	61.4	762.5	85.4	2978	3.9

13x6E

6300	56	17.6	236.3	85.8	1408	6
7000	63	24.6	325	85.5	1738	5.3
7700	71	33.3	434.5	85.2	2103	4.8
8400	80	44.4	567.4	84.7	2503	4.4
9100	90	58.2	726.2	84.1	2937	4
9737	100	74.6	902.8	83.2	3363	3.7

11.1V

XM3844EG-12 (810KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



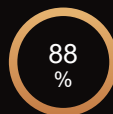
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

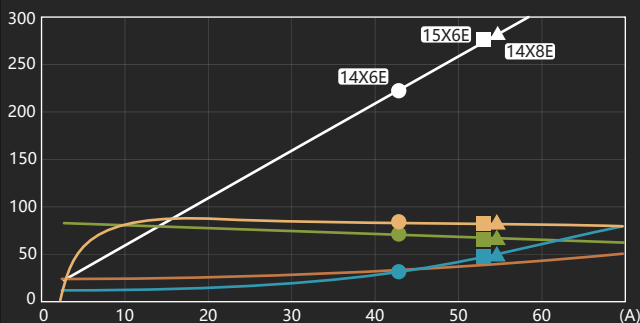
EL. POWER 电功率 [IN 2W]

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 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)
11.1V (3S LIPO)	14x6E						
	4000	51	7.5	81.9	85.2	709	8.7
	4500	58	10.6	116.3	85.4	897	7.7
	5500	73	19.6	213.2	85.1	1340	6.3
	6000	81	25.8	278.1	84.7	1595	5.7
	6500	89	33.1	355.7	84.2	1872	5.3
	7133	100	44.8	476	83.3	2254	4.7
	14x8E						
	4000	53	10.1	110.5	84.2	945	8.6
	4500	60	14.5	157.9	83.9	1196	7.6
	5000	68	20.1	217.9	83.4	1477	6.8
	5500	76	27.1	292.2	82.8	1787	6.1
	6000	85	35.8	382.7	82	2126	5.6
	6804	100	54.1	569.4	80.6	2734	4.8
	15x6E						
	4000	53	10	109.1	84.2	872	8
	4500	60	14.3	155.9	84	1103	7.1
	5000	68	19.8	215.1	83.5	1362	6.3
	5500	76	26.8	288.4	82.9	1648	5.7
	6000	85	35.3	377.7	82.2	1962	5.2
	6818	100	53.7	565.4	80.7	2533	4.5

14.8V

XM3844EG-12 (810KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



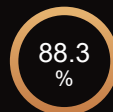
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

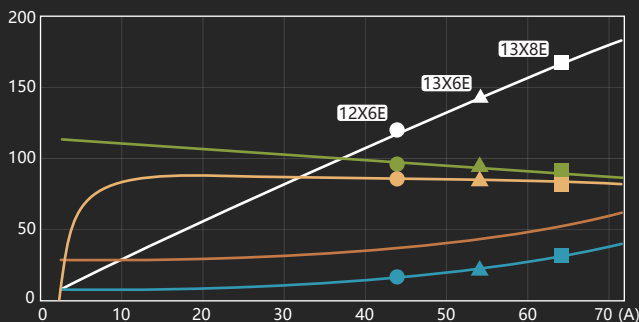
EL.POWER 电功率 [IN 5W] ■

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] ■

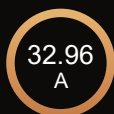


Voltage 电压 (V)	Propeller 螺旋桨 (RPM)	Throttle 油门 (%)	Current 电流 (A)	el. Power 输入功率 (W)	Efficiency 效率 (%)	Thrust 静拉力 (g)	Spec. Thrust 螺旋桨效率 (g/W)
14.8V (4S LIPO)	12x6E						
	5600	53	8.2	118.8	87	875	7.4
	6300	60	11.6	168.5	87.3	1107	6.6
	7000	68	16.1	230.9	87.4	1367	5.9
	8400	84	28.5	400.7	87	1968	4.9
	9100	93	36.8	511.5	86.7	2310	4.5
	9595	100	44.1	605.2	86.1	2569	4.2
	13x6E						
	5600	54	11.4	164.6	86.5	1112	6.8
	6300	62	16.4	234.8	86.3	1408	6
	7000	71	22.8	323.4	86	1738	5.4
	7700	80	30.9	433	85.5	2103	4.9
	8400	89	41.1	565.9	84.9	2503	4.4
	9117	100	54.4	733.9	84	2948	4
	13x8E						
	5400	54	13.9	199.8	85.2	1379	6.9
	6000	61	19.3	275.5	84.7	1703	6.2
	6600	69	26.2	369.2	84.2	2060	5.6
	7200	77	34.7	483.2	83.5	2452	5.1
	7800	86	45.3	619.6	82.8	2877	4.6
	8637	100	64.8	857.9	81.4	3528	4.1

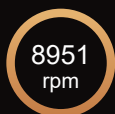
11.1V

XM3850EG-8 (920KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



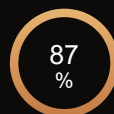
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

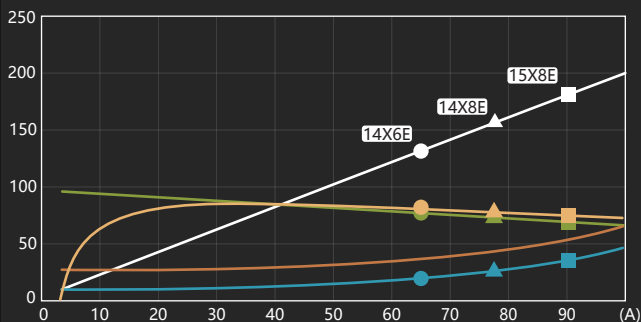
EL.POWER 电功率 [IN 5W]

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 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)
11.1V (3S LIPO)	14x6E						
	4800	54	13.1	142.2	84.8	1021	7.2
	5400	62	18.6	201.7	85.1	1292	6.4
	6000	70	25.7	276.7	85.1	1595	5.8
	6600	78	34.6	369.2	84.9	1930	5.2
	7200	87	45.5	481.3	84.5	2297	4.8
	8026	100	64.9	675.6	83.6	2854	4.2
	14x8E						
	4500	52	14.5	157.7	84	1196	7.6
	5000	59	20	216.4	84	1477	6.8
	6000	73	35.4	376.7	83.3	2126	5.6
	6500	81	45.6	481.8	82.9	2496	5.2
	7000	89	58	605.9	82.3	2894	4.8
	7645	100	78	801.6	81.3	3452	4.3
	15x8E						
	4500	54	19.6	211.5	82.5	1471	7
	5000	61	27.2	291.7	82.1	1816	6.2
	5500	69	36.8	391.3	81.5	2198	5.6
	6000	77	48.8	512.5	80.7	2615	5.1
	6500	86	63.4	658.1	79.9	3069	4.7
7243	100	91.9	930.6	78.5	3812	4.1	

14.8V

XM3850EG-8 (920KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



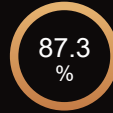
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

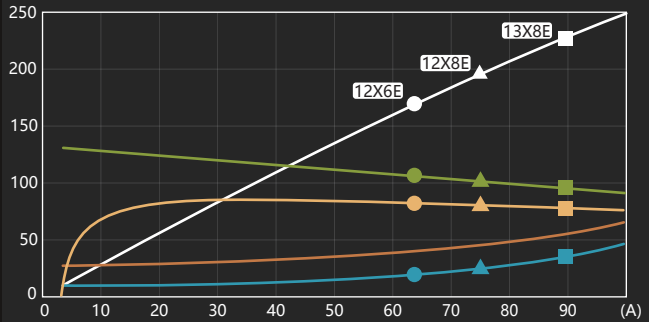
EL. POWER 电功率 [IN 5W]

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]

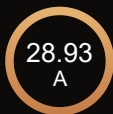


Voltage 电压 (V)	Propeller 螺旋桨 (RPM)	Throttle 油门 (%)	Current 电流 (A)	el. Power 输入功率 (W)	Efficiency 效率 (%)	Thrust 静拉力 (g)	Spec. Thrust 螺旋桨效率 (g/W)
14.8V (4S LIPO)	12x6E						
	6400	53	12.4	179	86.2	1143	6.4
	7200	61	17.7	253.3	86.7	1446	5.7
	8000	69	24.5	346.6	86.9	1785	5.2
	8800	77	33.1	461.2	86.9	2160	4.7
	9600	87	43.8	599.8	86.8	2571	4.3
	10648	100	62.3	827.8	86.1	3163	3.8
	12x8E						
	6300	54	15.9	227.8	86.1	1476	6.5
	7000	61	22	312.1	86.2	1823	5.8
	7700	68	29.7	415.8	86.1	2205	5.3
	8400	76	39.3	541.4	85.9	2625	4.8
	9100	85	51.1	691	85.6	3080	4.5
	10138	100	74.7	970.4	84.6	3823	3.9
	13x8E						
	6300	56	22.5	317.7	85.1	1877	5.9
	7000	64	31.4	437.5	84.7	2317	5.3
	7700	73	42.8	585.7	84.2	2804	4.8
	8400	82	57.4	765.7	83.7	3337	4.4
	9100	93	75.8	981.2	83	3916	4
	9510	100	90	1135.5	82.3	4277	3.8

14.8V

XM3850EG-10 (740KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



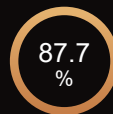
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

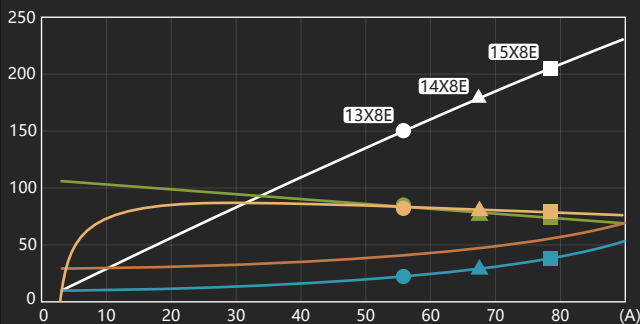
EL.POWER 电功率 [IN 5W]

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 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)
14.8V (4S LIPO)	13x8E						
	4800	50	9.6	139.3	85.8	1090	7.8
	5400	57	13.7	197.7	86.1	1379	7
	6600	73	25.6	361.7	85.9	2060	5.7
	7200	81	33.8	471.3	85.6	2452	5.2
	7800	90	43.9	602.2	85.2	2877	4.8
	8387	100	56.4	757.6	84.4	3326	4.4
	14x8E						
	4800	52	13.1	189	85.1	1361	7.2
	5400	60	18.9	269.8	84.9	1722	6.4
	6000	68	26.4	371.9	84.4	2126	5.7
	6600	77	35.9	498.3	83.9	2573	5.2
	7200	86	47.9	652	83.2	3062	4.7
	7941	100	67.6	890.1	82.1	3725	4.2
	15x8E						
	4500	50	14.5	208.5	83.7	1471	7.1
	5000	57	20.2	287.6	83.3	1816	6.3
	6000	72	36.5	504.7	82	2615	5.2
	6500	80	47.7	647.6	81.2	3069	4.7
	7000	90	61.5	816.8	80.4	3560	4.4
	7491	100	79	1017.9	79.4	4076	4

18.5V

XM3850EG-10 (740KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



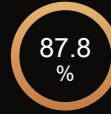
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

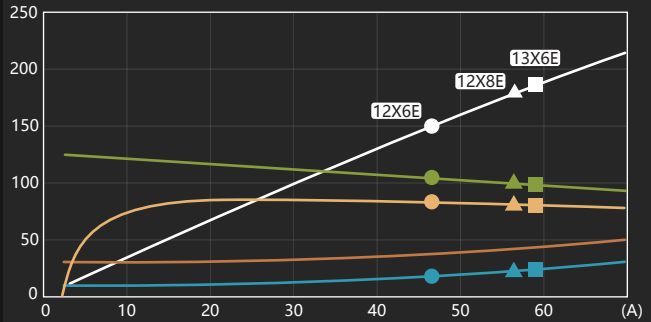
EL. POWER 电功率 [IN 5W]

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 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)
18.5V (5S LIPO)	12x6E						
	6300	55	9.9	169.4	86.8	1107	6.5
	7000	62	13.6	231	87.4	1367	5.9
	7700	69	18.2	306.6	87.6	1654	5.4
	9100	84	30.8	506	87.6	2310	4.6
	9800	92	39	633.1	87.5	2679	4.2
	10399	100	47.8	763	86.9	3017	4
	12x8E						
	6300	56	13.3	225.6	86.9	1476	6.5
	7000	63	18.4	309.1	87.1	1823	5.9
	7700	71	24.8	411.8	87	2205	5.4
	8400	79	32.7	536.1	86.8	2625	4.9
	9100	88	42.5	684.1	86.4	3080	4.5
	9956	100	57.9	907.6	85.6	3687	4.1
	13x6E						
	6300	56	13.8	233.2	86.9	1408	6
	7000	64	19.1	319.6	87	1738	5.4
	7700	71	25.7	426.1	86.9	2103	4.9
	8400	80	34	554.8	86.6	2503	4.5
	9100	89	44.1	708.2	86.2	2937	4.1
	9903	100	59.1	924.7	85.4	3478	3.8