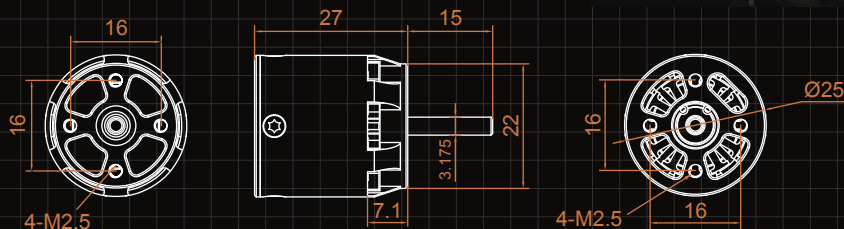


Dimension 尺寸图

Xmotor 2527EG

Small gliders special, e.g. eRES, F5K



Specification 参数

NAME 型号	XM2527EG-14	XM2527EG-16	XM2527EG-23
SKU 商品编码	52167	52168	52169
RPM / V (KV) KV值	2700	2300	1600
Weight (g) 重量	37.5	37.5	37.5
Diameter (mm) 直径	D: Front Face 22, body 25		
Length (mm) 长度	L: 27, 42 incl. shaft		
Diameter of Shaft(mm) 轴径	3.175 hollow		
Pitch of holes (mm) 安装孔距	16 / 16		
Input Connectors 输入插头	GC2.0 3 Pairs		
Slots & Poles 槽数, 极数	12N14P		
I _o @10V(A)空载电流	1.50	1.22	0.72
Resistance(Ri)(mOhm) 电机内阻	45	62	112
No. of Cells(LiPo) 适用电池	2 ^{1..3}	2 ^{1..3}	2.3 ^{1..4}
Max. EfficiencyCurrent(A) 效率电流	15	13.5	10
Max. Burst Current (15S)[A] 峰值电流	30	27	20
Max. Power(15S)[W] 峰值功率	220	200	222
Torque (mNM) 扭矩	132	140	149
Recommended ESC 推荐调速器	XC-33U-Lite 15° (Middle)	XC-33U-Lite 15° (Middle)	XC-22U-Lite (15°)
Propeller 螺旋桨	2S: 6x4, 6x6, 7x4, 8x4 ² 3S: 4.25x4, 2.5, 5x4, 5x4 (3-blade), 6x3	2S: 7x4, 7x6, 8x4, 8x5 ² 3S: 6x3, 6x4, 7x4 ² , 5x4 (3-blade)	2S: 9x5, 9x6, 9.5x6, 10x6 ² 3S: 7x4, 7x4(3-blade), 8x4, 8x5 ² 4S: 6x4, 6x5, 6x4(3-blade), 6x6
Applications 适用级别	F5K / eRES	F5K / eRES	F5K / eRES

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

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7.4V

XM2527EG-14 (2700KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



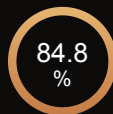
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

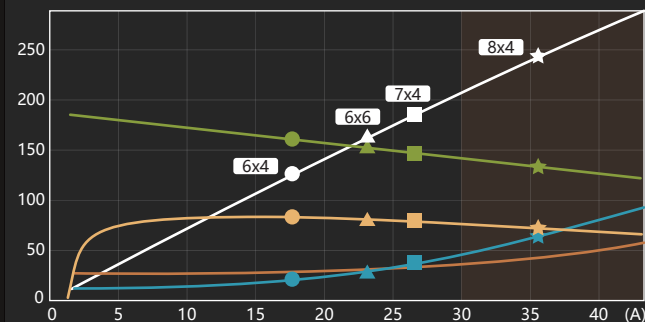
EL.POWER 电功率 [IN 1W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 1W]

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)
				6x4			
	9600	55	3.6	26.4	82.1	214	8.1
	10800	62	5.1	37.2	83.1	271	7.3
	12000	70	7	50.7	83.6	335	6.6
	13200	78	9.3	67.3	83.9	405	6
	14400	86	12.1	87.3	83.9	482	5.5
	16278	100	17.9	127.4	83.2	616	4.8
				6x6			
	8800	52	4.3	31.2	80.3	270	8.6
	9900	59	6.1	44.1	80.8	342	7.7
	11000	67	8.4	60.4	81	422	7
	13200	83	14.7	105	80.6	608	5.8
	14300	92	19	134.2	80.2	713	5.3
	15205	100	23.3	163.5	79.3	806	4.9
				7x4			
	8800	53	5.2	38.1	81.3	286	7.5
	9900	61	7.5	54.2	81.3	362	6.7
	11000	69	10.4	74.7	80.9	447	6
	12100	77	14	100	80.4	540	5.4
	13200	86	18.5	130.9	79.8	643	4.9
	14746	100	26.8	186.3	78.4	803	4.3
				8x4			
	8000	52	7	50.9	77.9	353	6.9
	9000	60	10.2	73.3	77.1	446	6.1
	10000	68	14.3	101.8	76.1	551	5.4
	11000	77	19.5	137.5	75	667	4.8
	12000	87	26.1	181.3	73.8	794	4.4
	13149	100	36	244.9	72.2	953	3.9

7.4V
(2S LIPO)

11.1V

XM2527EG-14 (2700KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



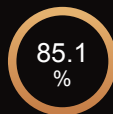
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

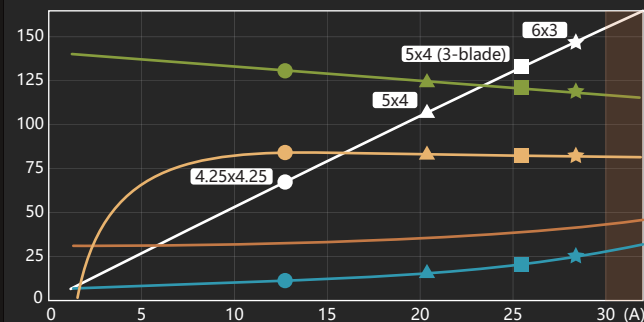
EL.POWER 电功率 [IN 2W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 200RPM]

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)

4.25x4.25

14000	50	2.1	23.1	77.8	172	7.4
16000	58	3	33.4	80.4	225	6.7
20000	73	5.8	63	83.3	351	5.6
22000	81	7.6	83	84.1	425	5.1
24000	89	9.9	107.1	84.7	506	4.7
26513	100	13.4	144.1	84.6	617	4.3

5x4

13300	49	3.1	33.7	82.6	238	7.1
15200	57	4.5	49.4	84	311	6.3
19000	72	8.7	95	85.3	486	5.1
20900	80	11.7	126.2	85.5	588	4.7
22800	89	15.3	163.8	85.6	699	4.3
25092	100	20.8	220.6	84.9	847	3.8

5x4 (3-blade)

14400	55	5.3	57.8	84.5	356	6.2
16200	62	7.5	81.9	84.9	450	5.5
18000	70	10.4	112.2	85	556	5
19800	78	13.9	149.5	84.9	673	4.5
21600	87	18.3	194.6	84.7	801	4.1
24073	100	26.1	273.8	83.7	994	3.6

6x3

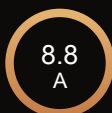
14400	56	6	66	83.1	362	5.5
16200	63	8.6	93.6	83.5	458	4.9
18000	72	11.9	128.4	83.5	565	4.4
19800	80	16	171.3	83.3	684	4
21600	89	21.1	223.2	83	813	3.6
23520	100	28.1	293.5	81.9	965	3.3

11.1V
(3S LIPO)

7.4V

XM2527EG-16 (2300KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



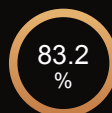
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

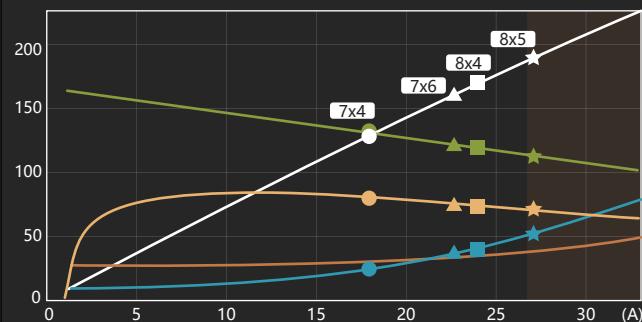
EL.POWER 电功率 [IN 1W] ■

EFFICIENCY 效率 [%] ■

MAX. REVOLUTIONS
转速 [IN 100RPM] ■

WASTE POWER
损耗功率 [IN 1W] ■

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)
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7x4

7200	50	2.9	21.3	79.7	191	9
8100	57	4.1	30.1	80.3	242	8.1
9900	72	7.5	54.8	80.5	362	6.6
10800	79	9.9	71.3	80.2	431	6
11700	87	12.7	91.1	79.8	505	5.5
12997	100	17.9	127.2	78.7	624	4.9

7x6

7200	53	4.5	32.7	77.8	287	8.8
8100	60	6.4	46.6	77.6	363	7.8
9000	69	8.9	64.4	77.2	449	7
9900	77	12	86.4	76.5	543	6.3
10800	86	15.9	113.3	75.8	646	5.7
12027	100	22.9	160.4	74.2	801	5

8x4

7200	54	5.1	37.3	77.6	286	7.7
8100	62	7.4	53.5	77	362	6.8
9000	70	10.3	74.1	76.3	446	6
9900	80	14	99.8	75.3	540	5.4
10800	89	18.5	131.3	74.3	643	4.9
11707	100	24.5	171.2	72.9	755	4.4

8x5

7200	56	6.6	47.9	75.5	357	7.5
8000	64	9.2	66.5	74.6	441	6.6
8800	72	12.5	89.7	73.6	533	5.9
9600	81	16.6	118.2	72.5	635	5.4
10400	91	21.7	152.7	71.4	745	4.9
11117	100	27.5	190.9	70	851	4.5

7.4V
(2S LIPO)

11.1V

XM2527EG-16 (2300KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



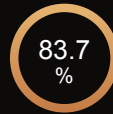
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

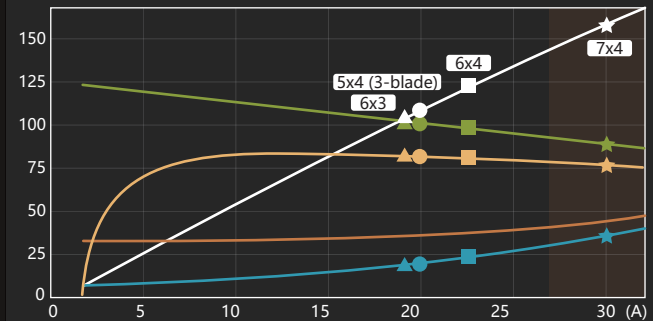
EL.POWER 电功率 [IN 2W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 200RPM]

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)

5x4 (3-blade)

11900	49	2.9	34	81	243	7.1
13600	57	4.3	50	82.3	317	6.3
17000	73	8.4	96.4	83.3	496	5.1
18700	81	11.2	128.3	83.4	600	4.7
20400	90	14.6	166.7	83.3	714	4.3
22177	100	19.2	217.5	82.3	844	3.9

6x3

12000	53	3.5	39	81.6	251	6.4
13500	61	5	54.9	82.5	318	5.8
15000	68	6.9	74.8	83	392	5.2
16500	76	9.1	99.3	83.2	475	4.8
19500	92	15.3	164.3	83	663	4
20762	100	18.9	201.3	82.1	752	3.7

6x4

12000	55	4.7	51.2	82.8	335	6.5
13500	62	6.7	72.6	83	424	5.8
15000	70	9.2	99.8	83	523	5.2
16500	79	12.4	133.2	82.7	633	4.7
18000	88	16.2	173.9	82.2	753	4.3
19930	100	22.8	241.1	80.9	923	3.8

7x4

10400	54	6.2	64	79.8	399	6.2
11700	62	9	91.6	79.4	505	5.5
13000	70	12.5	126.8	78.7	624	4.9
14300	79	17	170.5	77.9	755	4.4
15600	89	22.7	223.9	77	898	4
16904	100	30.1	292.6	75.5	1055	3.6

11.1V
(3S LIPO)

7.4V

XM2527EG-23 (1600KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



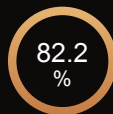
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

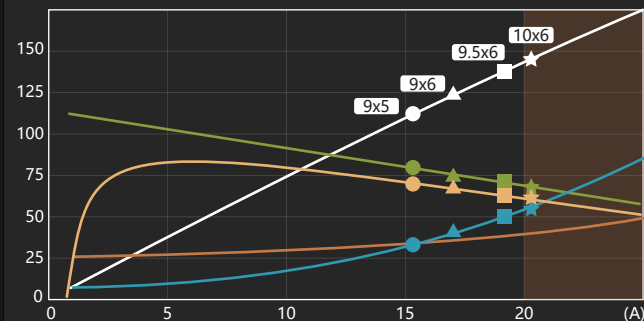
EL.POWER 电功率 [IN 1W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 1W]

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)
7.4V (2S LIPO)	9x5						
	4800	53	3.1	22.9	74.8	226	9.8
	5400	61	4.5	33	74.1	286	8.7
	6000	70	6.3	45.8	73.2	353	7.7
	6600	79	8.5	61.8	72.1	427	6.9
	7200	88	11.3	81.6	71	508	6.2
	7900	100	15.5	110.8	69.3	612	5.5
	9x6						
	4500	51	3.2	23.2	73.3	238	10.3
	5000	58	4.4	32.1	72.5	294	9.2
6000	73	7.9	57	70.5	424	7.4	
6500	81	10.2	73.7	69.4	497	6.8	
7000	90	13	93.5	68.3	577	6.2	
7559	100	17	120.9	66.7	672	5.6	
9.5x6							
4500	53	4.1	29.9	70.4	280	9.4	
5000	61	5.7	41.6	69.4	346	8.3	
5500	69	7.8	56.4	68.2	419	7.4	
6000	77	10.3	74.5	67	498	6.7	
6500	86	13.5	96.6	65.7	585	6.1	
7182	100	19.1	135	63.7	714	5.3	
10x6							
4000	49	3.6	26.4	68.9	258	9.8	
4500	57	5.3	38.3	67.5	327	8.5	
5000	65	7.4	53.8	66	404	7.5	
5500	74	10.2	73.3	64.4	488	6.7	
6000	84	13.6	97.5	62.8	581	6	
6744	100	20.5	144.8	60.3	734	5.1	

11.1V

XM2527EG-23 (1600KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



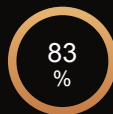
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

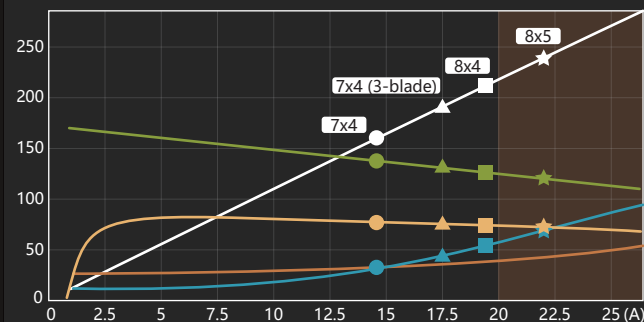
EL.POWER 电功率 [IN 1W] ■

EFFICIENCY 效率 [%] ■

MAX. REVOLUTIONS
转速 [IN 100RPM] ■

WASTE POWER
损耗功率 [IN 1W] ■

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)

				7x4			
	8000	53	2.6	28.6	81.4	236	8.3
	9000	60	3.7	40.6	81.7	299	7.4
	10000	68	5.1	55.7	81.6	369	6.6
	12000	84	8.9	97.1	80.9	532	5.5
	13000	93	11.5	124.2	80.3	624	5
	13814	100	14.1	151.9	79.2	704	4.6
				7x4 (3-blade)			
	8000	55	3.7	40.4	79.7	301	7.5
	9000	63	5.3	57.6	79.5	381	6.6
	10000	71	7.3	79.5	79	471	5.9
	11000	80	9.8	106.8	78.3	570	5.3
	12000	89	13	139.9	77.6	678	4.8
	13094	100	17.5	186.7	76	807	4.3
				8x4			
	7200	50	3.3	36.6	79.1	286	7.8
	8100	58	4.8	52.4	78.6	362	6.9
	9000	65	6.6	72.5	77.9	446	6.2
	10800	82	11.9	128.2	76.1	643	5
	11700	91	15.4	165.2	75.1	754	4.6
	12513	100	19.5	207.3	73.7	863	4.2
				8x5			
	7200	52	4.3	46.8	77.2	357	7.6
	8100	60	6.2	67.5	76.3	452	6.7
	9000	69	8.6	93.9	75.2	558	5.9
	9900	78	11.8	126.9	74	675	5.3
	10800	87	15.6	167.5	72.8	803	4.8
	11910	100	22	232.5	70.8	977	4.2

14.8V

XM2527EG-23 (1600KV)

Motor @ Optimum Efficiency 优化效率点



Current
电流



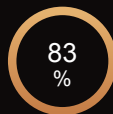
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

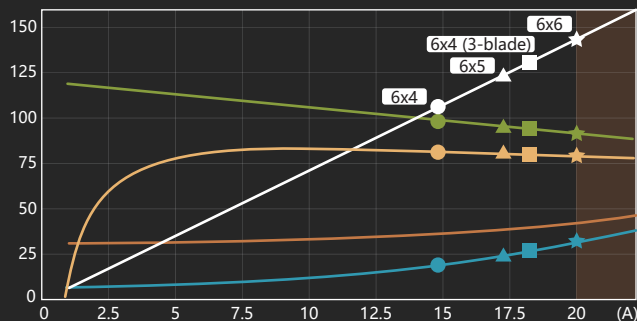
EL.POWER 电功率 [IN 2W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 200RPM]

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)

14.8V
(4S LIPO)

Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
6x4							
11200	54	54	2.8	41.5	82.9	292	7
12600	61	61	4	58.9	83.3	369	6.3
14000	69	69	5.5	80.6	83.4	456	5.6
15400	77	77	7.4	107.5	83.3	551	5.1
16800	85	85	9.7	140	83	656	4.7
19197	100	100	14.9	214	81.5	857	4
6x5							
11200	55	55	3.5	51.9	82.9	365	7
12600	63	63	5.1	73.9	82.9	461	6.2
14000	71	71	7	101.7	82.7	570	5.6
15400	79	79	9.4	136.1	82.3	689	5.1
16800	88	88	12.3	177.8	81.7	820	4.6
18588	100	100	17.3	247.3	80.1	1004	4.1
6x4 (3-blade)							
11200	56	56	3.9	57.6	82.7	372	6.5
12600	64	64	5.6	82.2	82.5	471	5.7
14000	72	72	7.8	113.3	82.1	581	5.1
15400	81	81	10.5	151.9	81.6	703	4.6
16800	90	90	13.8	198.7	80.9	837	4.2
18291	100	100	18.5	263.4	79.3	992	3.8
6x6							
10400	52	52	3.5	50.6	81.7	377	7.4
11700	59	59	4.9	72.1	81.8	477	6.6
13000	67	67	6.8	99.1	81.5	589	5.9
15600	83	83	12	173.3	80.6	849	4.9
16900	91	91	15.5	222	80	996	4.5
18092	100	100	19.7	279.8	78.4	1141	4.1