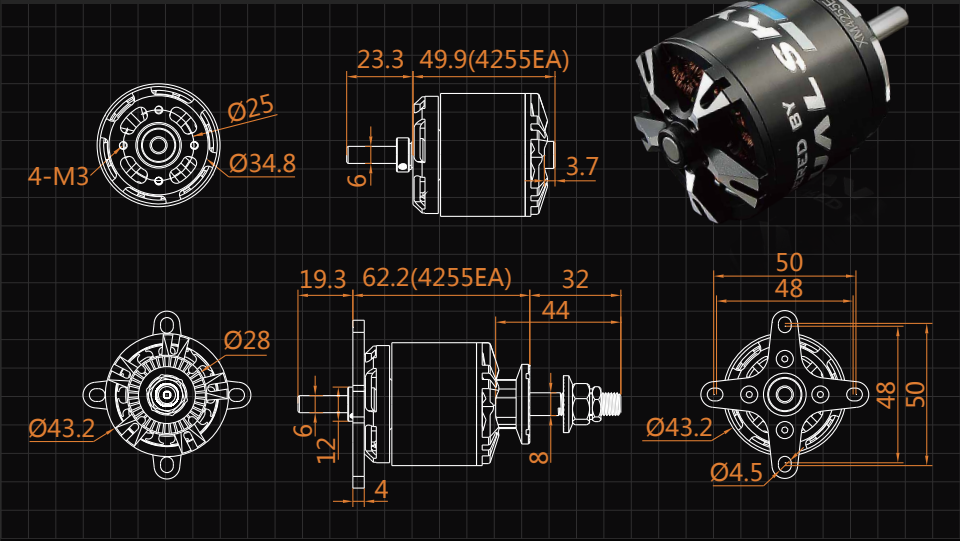


Dimension 尺寸图



Specification 规格

EA V3 SERIES	XM4255EA-10	XM4255EA-12
SKU (商品编码)	51861	51862
KV (KV值)	620	520
Weight(g) (重量, 不含配件)	270	269
Dimensions(D x L)[mm] (尺寸)	43.2x49.9	
Diameter of Shaft (mm) (轴径)	6.0	
Spec. of Mounting Holes (安装孔距)	4-M3, 25/25	
Input Connectors (输入插头)	DB4	
Dimensions of Stator(mm) (定子尺寸)	3525	
Slots & Poles (槽数, 极数)	12N14P	
Ri(mOhm) (电机内阻)	16	23.3
Io@10V (A) (空载电流)	1.5	1.2
No.of Cells(LiPo) (适用电池)	5 ¹ ..6	5 ¹ ..6 ¹
Efficiency Current[A] (效率电流)	31.0	28.0
Burst Current (15S)[A] (峰值电流)	62	56
Peak Power(15S)[W] (峰值功率)	1240	1344
Peak Torque [N·M] (峰值扭矩)	1.19	1.29
Recommended ESC (推荐调速器)	SUMMIT 100	SUMMIT 100
Recommended Propeller (螺旋桨)	5S ¹ : 14x7E 6S: 12x7E, 13x6E, 13x8E ²	5S: 15x8E 6S ¹ : 14x7E
Application (适用级别)	55E,.35-.55 2-stroke. Up to .60 4st	

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

XM4255EA-10 (620KV)

Motor @ Optimum Efficiency 优化效率点

43.43
A

Current
电流

17.89
V

Voltage
电压

10247
rpm

Revolutions
转速

776.8
W

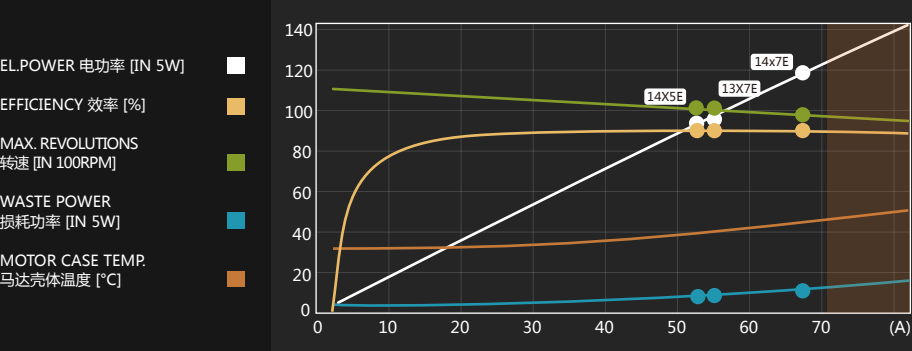
electric Power
电功率

705.4
W

mech. Power
机械功率

90.8
%

Efficiency
效率



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)
18.5V (5S LIPO)	13X7E							
	5600	53	9.3	18.4	170.6	89.1	1298	7.6
	6300	60	13.2	18.3	240.7	89.9	1642	6.8
	7000	67	18	18.3	328.3	90.4	2028	6.2
	7700	74	24	18.2	435.6	90.7	2453	5.6
	8400	82	31.3	18.1	564.7	90.8	2920	5.2
	9100	89	40.1	18	717.7	90.9	3427	4.8
	9800	97	50.4	17.9	897	90.8	3974	4.4
	10026	100	54.3	17.8	963.7	90.6	4159	4.3
	14X5E							
	5600	53	9	18.4	164.2	88.9	1158	7
	6300	60	12.7	18.3	231.5	89.8	1465	6.3
	7000	67	17.3	18.3	315.6	90.4	1809	5.7
	7700	74	23.1	18.2	418.6	90.7	2189	5.2
	8400	81	30	18.1	542.4	90.9	2605	4.8
	9100	89	38.4	18	689.3	90.9	3057	4.4
	9800	97	48.3	17.9	861.2	90.9	3545	4.1
	10060	100	52.6	17.8	934.7	90.6	3736	4
	14x7E							
	5600	53	12.5	18.3	227.5	89.9	1621	7.1
	6300	61	17.7	18.3	322.4	90.3	2051	6.4
	7000	68	24.4	18.2	441.4	90.5	2532	5.7
	7700	76	32.6	18.1	587.4	90.5	3064	5.2
	8400	84	42.7	18	763.5	90.4	3647	4.8
	9100	92	54.9	17.8	972.7	90.2	4280	4.4
	9740	100	68.4	17.6	1200.2	89.8	4903	4.1

22.2V

XM4255EA-10 (620KV)

Motor @ Optimum Efficiency 优化效率点



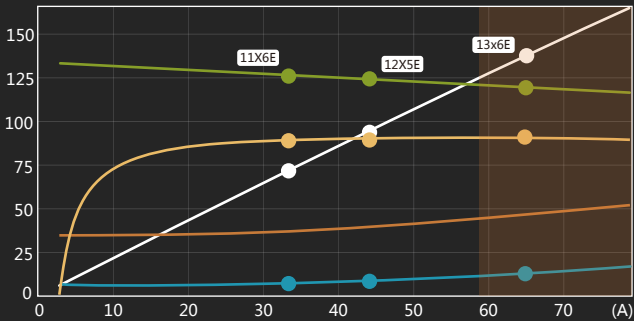
EL.POWER 电功率 [IN 5W]

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)	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)					11X6E			
	6300	48	5.1	22.1	112.1	84.8	853	7.6
	7200	55	7.4	22.1	163.6	86.8	1114	6.8
	8100	63	10.4	22	229.5	88.1	1410	6.1
	9000	70	14.2	22	311.7	89	1741	5.6
	9900	77	18.8	21.9	412	89.6	2106	5.1
	10800	85	24.4	21.8	532.4	90	2506	4.7
	11700	93	31.1	21.7	674.8	90.3	2942	4.4
	12519	100	38.3	21.6	825.6	90.2	3367	4.1
					12X5E			
	6300	49	5.9	22.1	130	86.4	923	7.1
	7200	56	8.6	22.1	190.4	88	1205	6.3
	8100	63	12.2	22	267.8	89.1	1525	5.7
	9000	70	16.6	22	364.4	89.8	1883	5.2
	9900	78	22.1	21.9	482.5	90.3	2279	4.7
	10800	86	28.8	21.8	624.4	90.6	2712	4.3
	11700	94	36.7	21.6	792.3	90.7	3182	4
	12396	100	43.9	21.5	943.1	90.6	3572	3.8
					13x6E			
	6300	49	9.4	22.1	207.4	89.4	1408	6.8
	7200	57	14	22	306.7	90.3	1839	6
	8100	64	19.9	21.9	434.6	90.7	2327	5.4
	9000	72	27.4	21.8	594.7	90.9	2873	4.8
	9900	80	36.7	21.6	791.2	91	3476	4.4
	10800	89	48.1	21.5	1027.8	90.9	4137	4
	11700	98	61.8	21.3	1308.6	90.8	4855	3.7
	11920	100	65.8	21.2	1389.5	90.5	5039	3.6

18.5V

XM4255EA-12 (520KV)

Motor @ Optimum Efficiency 优化效率点

33.11
A

Current
电流

18.01
V

Voltage
电压

8637
rpm

Revolutions
转速

596.3
W

electric Power
电功率

539.3
W

mech. Power
机械功率

90.4
%

Efficiency
效率

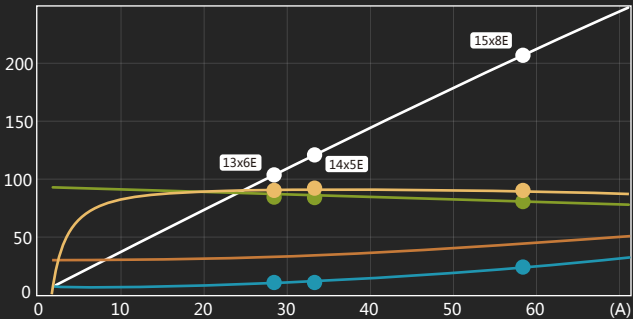
EL.POWER 电功率 [IN 2W]

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)
18.5V (5S LIPO)					13x6E			
	5400	60	7.3	18.4	133.8	87.3	1034	7.7
	6000	67	9.9	18.4	181.1	88.5	1277	7
	6600	74	13.1	18.3	238.9	89.3	1545	6.5
	7200	81	16.9	18.3	308.2	89.8	1839	6
	7800	89	21.5	18.2	390.2	90.2	2158	5.5
	8400	96	26.9	18.2	486	90.5	2503	5.1
	8703	100	30	18.1	540.8	90.4	2686	5
					14x5E			
	5400	60	8.1	18.4	148.8	88	1076	7.2
	6000	67	11	18.4	201.8	89	1329	6.6
	6600	75	14.6	18.3	266.6	89.7	1608	6
	7200	82	18.9	18.3	344.4	90.1	1914	5.6
	7800	89	24.1	18.2	436.5	90.4	2246	5.1
	8400	97	30.1	18.1	544.1	90.6	2605	4.8
	8640	100	32.9	18.1	593.1	90.4	2756	4.6
					15x8E			
	4800	55	11.9	18.4	217.4	89.2	1674	7.7
	5400	63	17	18.3	308.5	89.5	2118	6.9
	6000	71	23.4	18.2	422.8	89.6	2615	6.2
	6600	79	31.3	18.1	563.4	89.5	3165	5.6
	7200	87	41.1	18	733.3	89.2	3766	5.1
	7800	96	52.8	17.8	935.3	89	4420	4.7
	8085	100	59.4	17.8	1046.9	88.6	4748	4.5

22.2V

XM4255EA-12 (520KV)

Motor @ Optimum Efficiency 优化效率点



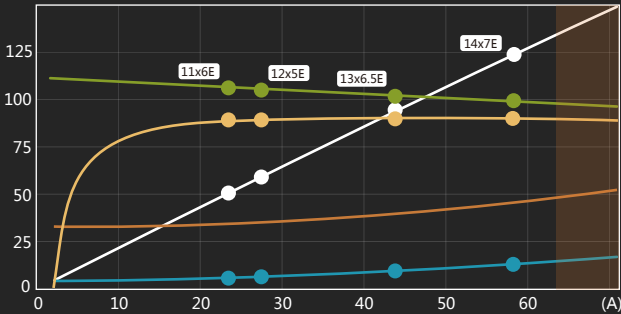
EL.POWER 电功率 [IN 2W]

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)	7200	66	7.5	22.1	11x6E 165.4	85.8	1114	6.7
	8000	74	10.2	22	223.5	87.1	1375	6.2
	8800	81	13.4	22	294.4	88	1664	5.7
	9600	89	17.3	21.9	379.4	88.7	1980	5.2
	10400	97	22	21.9	479.9	89.1	2324	4.8
	10670	100	23.7	21.8	517.2	89	2446	4.7
	7200	66	8.7	22.1	12x5E 192.1	87.2	1205	6.3
	8000	74	11.8	22	260.3	88.3	1488	5.7
	8800	82	15.7	22	343.6	89	1800	5.2
	9600	90	20.3	21.9	443.5	89.5	2143	4.8
	10400	98	25.8	21.8	561.7	89.9	2514	4.5
	10591	100	27.3	21.8	593	89.7	2607	4.4
	7000	66	14	22	13x6.5E 306.6	89.9	1883	6.1
	7700	73	18.6	21.9	406.2	90.3	2278	5.6
	8400	80	24.2	21.8	526	90.6	2711	5.2
	9100	88	30.9	21.7	667.9	90.7	3182	4.8
	9800	95	38.8	21.6	834	90.7	3690	4.4
	10214	100	44.2	21.5	947.3	90.5	4009	4.2
	7000	67	20.3	21.9	14x7 442.3	90.3	2532	5.7
	7700	75	27.1	21.8	588.3	90.3	3064	5.2
	8400	83	35.5	21.7	764.3	90.3	3647	4.8
	9100	91	45.5	21.5	973.4	90.1	4280	4.4
	9800	99	57.5	21.3	1218.6	89.9	4964	4.1
	9880	100	59.2	21.3	1254	89.7	5045	4