

Specification 参数

NAME 型号	GA8000.8	GA8000.8S	GA8000.9	GA8000.9S
SKU 商品编码	52060	52061	52101	52102
RPM / V (KV) KV值	160		140	
Weight (g) 重量 (不含配件, 含配件)	1140 (body only), 1328g (w/ accessories)		1140 (body only), 1328g (w/ accessories)	
Outer Diameter (mm) 直径	90.2		90.2	
Length w/ mounts (mm) 长度带桨座	106		106	
Length (mm) 长度	146		146	
Diameter of Shaft (mm) 轴径	12 (internal, hollow), 10 (output)		12 (internal, hollow), 10 (output)	
Mounting holes pitch (mm) 安装孔距	100		100	
Slots & Poles 槽数, 极数	24, 28		24, 28	
Io@10V(A) 空载电流	2.35		2.1	
Resistance (Ri) (mOhm) 电机内阻	13.2		17.6	
No. of Cells (LiPo) 适用电池	44.4V to 51.8V, 12S-14S Lipo		44.4V to 51.8V, 12S-14S Lipo	
Peak power [15s] 峰值功率	7992W (11.3HP) @44.4V 9320W (12.7HP) @51.8V		7326W (10.0HP) @44.4V 8550W (11.6HP) @51.8V	
Bursts current [15s] (A) 峰值电流	180		165	
Cruising power [8 mins] (W) 续航功率	4100 (5.6HP)		4000 (5.44HP)	
Torque (mNM) 扭矩	13.56		13.97	
Recommended ESC 推荐调速器	200A and up HV ESC		180A - 200A HV ESC	
Propeller 螺旋桨	12S: 2-blade 26x10, 27x10, 28x10 3-blade 24x10, 24x12, 25x10 14S: 2-blade 25x10, 26x10, 27x9CF (NO ELECTRIC PROPELLER ALLOWED) 注意: 电动桨可能会折断		12S: 2-blade 28x10, 28x12, 29x10 3-blade 26x10, 27x10 14S: 2-blade 26x10, 27x10, 28x10 (NO ELECTRIC PROPELLER ALLOWED) 注意: 电动桨可能会折断	
Weight of sports airplane 运动机重量	Up to 28KG		Up to 26KG	
Weight of 3D airplane 3D机重量	Up to 14KG		Up to 13KG	
Applications 适用级别	Designed for 80cc to 120cc class UAV, 3D and scale warbird airplanes.		Designed for 76cc to 100cc class UAV, 3D and scale warbird airplanes.	

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

44.4V

GA8000.8&8S(160KV)

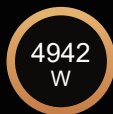
Motor @ Optimum Efficiency 优化效率点 ★



Current
电流



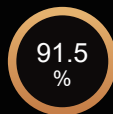
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

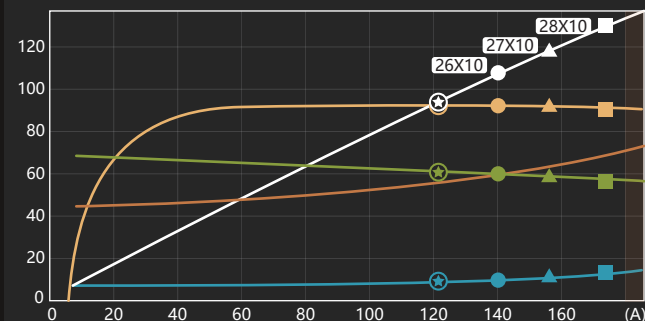
EL. POWER 电功率 [IN50W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 50W]

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)	26x10 (2-blade)						
	3200	48	19.9	901	89.4	6035	6.7
	4000	61	38.5	1722	90.9	9298	5.4
	4400	68	51.5	2285	91.3	11427	5
	5200	83	86.5	3761	91.7	15795	4.2
	5600	91	109.6	4706	91.7	18352	3.9
	6043	100	140.6	5925	91.5	21329	3.6
	27x10 (2-blade)						
	3200	49	22.9	1034	90.1	6721	6.5
	4000	62	44.9	2002	91.3	10608	5.3
	4400	69	60.1	2657	91.6	12751	4.8
	5200	84	101.5	4381	91.7	17963	4.1
	5600	92	128.9	5469	91.7	20783	3.8
	5942	100	157.4	6568	91.4	22987	3.5
	28x10 (2-blade)						
	3200	49	26.5	1194	90.7	7520	6.3
	4000	62	51.9	2307	91.6	11764	5.1
	4400	70	69.8	3072	91.7	14130	4.6
	4800	77	91.8	3981	91.7	16719	4.2
	5200	86	118.8	5066	91.7	19757	3.9
	5837	100	174.9	7208	91.3	25229	3.5

44.4V

GA8000.8&8S(160KV)

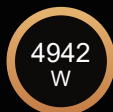
Motor @ Optimum Efficiency 优化效率点 ★



Current
电流



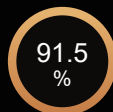
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

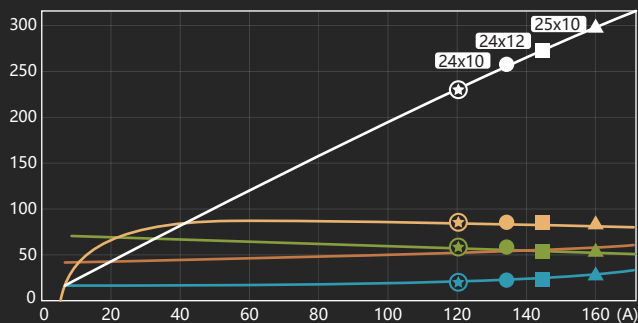
EL. POWER 电功率 [IN 20W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 20W]

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)	24x10 (3-blade)						
	3200	48	19.3	845	89.4	5664	6.7
	4000	61	37.5	1626	90.9	8781	5.4
	4400	68	50	2155	91.3	10774	5
	5200	83	84	3544	91.7	14885	4.2
	5600	91	106.4	4425	91.7	17258	3.9
	6041	100	136.4	5579	91.5	20086	3.6
	24x12 (3-blade)						
	3200	49	21.4	937	90.3	6275	6.7
	4000	62	41.8	1806	91.4	9931	5.5
	4400	69	56	2399	91.6	11995	5
	4800	77	73.5	3118	91.7	14345	4.6
	5600	93	120.6	4946	91.7	19290	3.9
	5917	100	145.4	5873	91.4	21730	3.7
	25x10 (3-blade)						
	3200	49	23.3	1020	90.2	6628	6.5
	4000	62	45.6	1974	91.4	10267	5.2
	4400	69	61	2620	91.6	12578	4.8
	4800	76	80.2	3399	91.7	14955	4.4
	5600	93	131.3	5396	91.7	20503	3.8
	5931	100	159.4	6438	91.4	22534	3.5

51.8V

GA8000.8&8S(160KV)

Motor @ Optimum Efficiency 优化效率点 ★



Current
电流



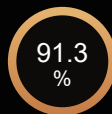
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

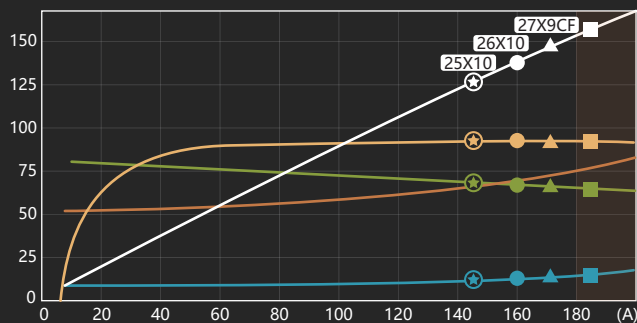
EL. POWER 电功率 [IN 50W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 50W]

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)
51.8V (14S LIPO)	25x10 (2-blade)						
	4000	52	28.3	1444	90.3	8088	5.6
	4500	59	40.3	2040	90.9	10201	5
	5000	67	55.6	2789	91.3	12551	4.5
	6000	82	98.2	4800	91.6	18240	3.8
	6500	91	127.1	6113	91.6	21394	3.5
	6970	100	160.3	7551	91.2	24919	3.3
	26x10 (2-blade)						
	4000	52	31.9	1621	90.9	8751	5.4
	4500	60	45.5	2292	91.4	11230	4.9
	5000	67	63	3143	91.6	13830	4.4
	6000	84	112	5424	91.7	20067	3.7
	6500	93	145.8	6911	91.6	23499	3.4
	6841	100	173.7	8092	91.3	25895	3.2
	27x9CF (2-blade)						
	4000	53	34.4	1750	91.1	9098	5.2
	4500	60	49.3	2486	91.5	11683	4.7
	5000	67	68.3	3400	91.7	14281	4.2
	5500	76	92.2	4525	91.7	17195	3.8
	6000	84	121.8	5871	91.7	20548	3.5
	6801	100	185.6	8614	91.2	26702	3.1

44.4V

GA8000.9&9S(140KV)

Motor @ Optimum Efficiency 优化效率点 ★

93.8
A

Current
电流

5372
rpm

Revolutions
转速

3887
W

electric Power
电功率

3549
W

mech. Power
机械功率

91.3
%

Efficiency
效率

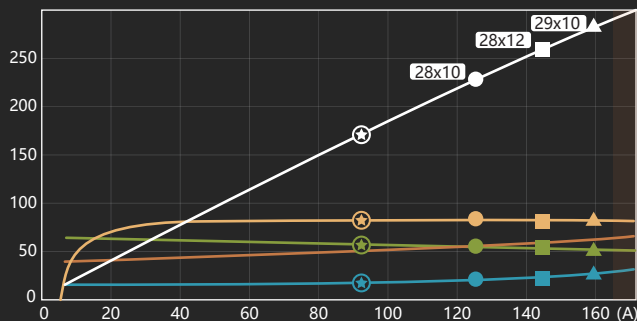
EL. POWER 电功率 [IN 20W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 20W]

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)	28x10 (2-blade)						
	2800	48	17.9	787	89.4	5586	7.1
	3600	63	37.8	1644	91	9208	5.6
	4000	71	52	2245	91.3	11448	5.1
	4400	80	69.9	2987	91.5	13742	4.6
	4800	88	91.9	3870	91.5	16253	4.2
	5291	100	126.2	5201	91.2	19764	3.8
	28x12 (2-blade)						
	3000	53	25.7	1124	90.5	7532	6.7
	3300	58	34.3	1494	91	9112	6.1
	3900	70	57.1	2450	91.4	12741	5.2
	4200	77	72	3066	91.4	14718	4.8
	4800	90	110.1	4580	91.3	19236	4.2
	5184	100	142.3	5806	91	22644	3.9
	29x10 (2-blade)						
	3200	56	31.7	1384	90.8	8444	6.1
	3600	64	45.3	1965	91.2	10610	5.4
	4000	72	62.6	2687	91.4	13164	4.9
	4400	81	84.5	3583	91.4	16123	4.5
	4800	90	111.3	4644	91.4	19042	4.1
	5210	100	158.9	6502	91	24059	3.7

44.4V

GA8000.9&9S(140KV)

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

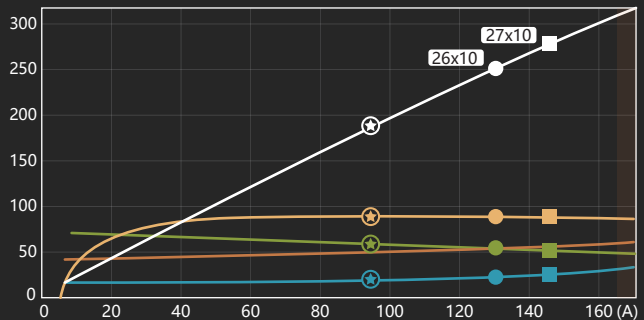
EL. POWER 电功率 [IN 20W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 20W]

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)	26x10 (3-blade)						
	3200	56	27.2	1190	90.5	7380	6.2
	3600	64	38.9	1687	91	9449	5.6
	4000	72	53.6	2312	91.3	11559	5
	4400	80	72	3067	91.5	14109	4.6
	4800	89	94.8	3982	91.5	16723	4.2
	5276	100	129	5315	91.2	20196	3.8
	27x10 (3-blade)						
	3000	53	26.1	1143	90.5	7316	6.4
	3300	58	34.8	1514	91	8931	5.9
	3900	70	57.9	2492	91.4	12461	5
	4200	77	72.9	3108	91.4	14297	4.6
	4800	90	111.6	4643	91.3	18570	4
	5186	100	144.3	5890	91	21793	3.7

51.8V

GA8000.9&9S(140KV)

Motor @ Optimum Efficiency 优化效率点 ★



Current
电流



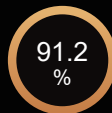
Revolutions
转速



electric Power
电功率



mech. Power
机械功率



Efficiency
效率

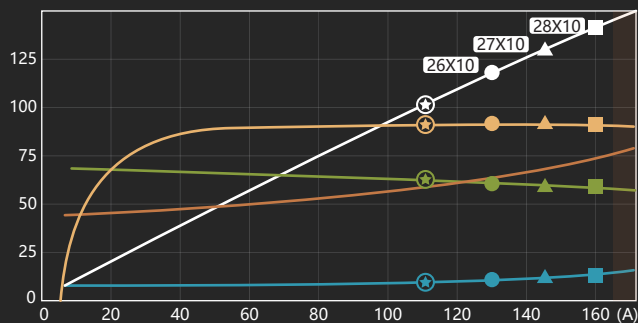
EL. POWER 电功率 [IN 50W]

EFFICIENCY 效率 [%]

MAX. REVOLUTIONS
转速 [IN 100RPM]

WASTE POWER
损耗功率 [IN 50W]

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)
51.8V (14S LIPO)	26x10 (2-blade)						
	3600	53	24.1	1233	90	7395	6
	4000	60	33	1676	90.6	9053	5.4
	4800	73	57.5	2880	91.3	12959	4.5
	5200	80	73.8	3660	91.4	15374	4.2
	5600	88	93.1	4572	91.4	17832	3.9
	6202	100	129.8	6232	91.2	21813	3.5
	27x10 (2-blade)						
	3600	54	27.9	1426	90.6	8271	5.8
	4000	60	38.4	1947	91.1	10124	5.2
	4400	67	51.3	2583	91.3	12400	4.8
	5200	82	86.4	4260	91.5	17464	4.1
	5600	89	109.4	5319	91.5	20211	3.8
	6102	100	145.3	6917	91.1	23519	3.4
	28x10 (2-blade)						
	3600	54	32.2	1643	91	9201	5.6
	4000	61	44.4	2242	91.3	11435	5.1
	4400	68	59.6	2988	91.5	13745	4.6
	5200	83	100.8	4929	91.5	19224	3.9
	5600	91	128.1	6164	91.3	22192	3.6
	5998	100	161.7	7619	90.9	25904	3.4