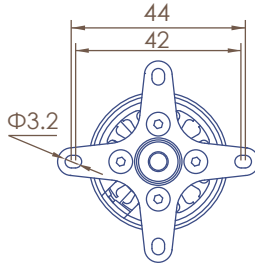
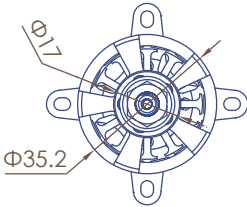
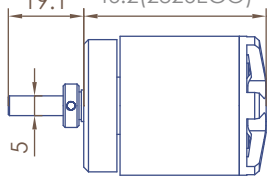
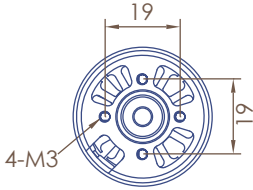




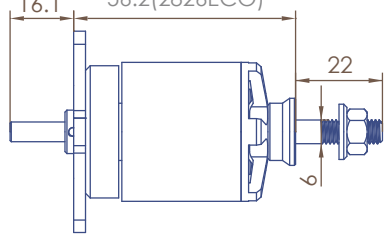
Dimensions

## ECO 2820C-V2

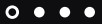
28.2(2808ECO)  
34.2(2814ECO)  
40.2(2820ECO)  
46.2(2826ECO)



38.2(2808ECO)  
44.2(2814ECO)  
50.2(2820ECO)  
56.2(2826ECO)



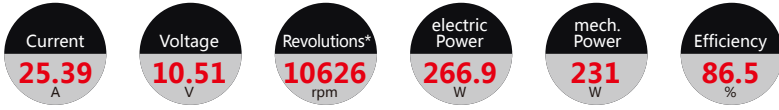
## Specification



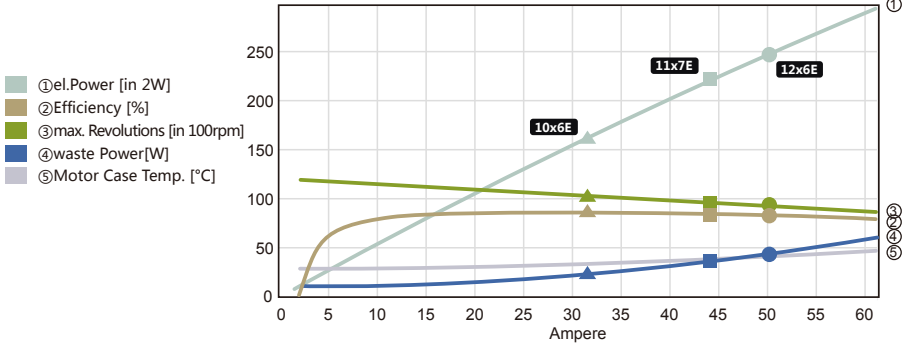
ECO-C Series	ECO 2820C		
SKU(商品编码)	51663	51664	51665
KV(KV值)	1120	940	800
Turns(匝数)	4.5	5.5	6.5
Weight(g)(重量)	138	138	138
Dimensions(D x L)[mm](尺寸)	35.2x40.2	35.2x40.2	35.2x40.2
Slots & Poles(槽数, 极数)	12N14P	12N14P	12N14P
Ri(mOhm)(电阻)	25.0	34.5	46.0
I <sub>o</sub> @10V (A)(空载电流)	1.8	1.2	0.9
No.of Cells(LiPo)(适用电池)	2.3	3.4	3.4
Max. EfficiencyCurrent[A](效率电流)	28	26	22
Max. Burst Current (15S)[A](最大电流)	45	40	34
Max. Power(15S)[W](最大功率)	540	480	540
Max. Torque [N*M](最大扭矩)	0.46	0.49	0.48
Shaft diameter(mm)(轴径)	5	5	5
Mountingholes pitch(安装孔距)	19/19	19/19	19/19
Input Connectors(输入链接)	GC3.5	GC3.5	GC3.5
RecommendedESC(调速器)	XC-45-LITE or XC4018BA	XC-45-LITE or XC4018BA	XC-45-LITE or XC4018BA
Propeller(螺旋桨)	3S: 12x5E, 11x7E, 10x6E	3S: 12x6E, 13x6.5E 4S: 10x5E, 9x5E	3S: 12x8E, 14x7E 4S: 12x4E, 11x7E
Class(适用机种)		.21-.30 Class	

# ECO 2820C (1120KV)

## 11.1V Motor @ Optimum Efficiency 最佳效率点



Motor Characteristics



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
11.1V (3S LIPO)	<b>10x6E</b>							
	4200	37	2.3	11.1	25	76.8	285	11.4
	4900	43	3.5	11	38	80.4	388	10.2
	5600	50	5	11	55.1	82.7	506	9.2
	6300	56	7.1	11	77.1	84.3	641	8.3
	7000	63	9.6	10.9	104.5	85.3	791	7.6
	7700	71	12.8	10.8	138	85.9	957	6.9
	8400	78	16.7	10.7	178.3	86.3	1139	6.4
	9100	86	21.4	10.7	226.2	86.5	1337	5.9
	9800	94	27	10.5	282.3	86.6	1550	5.5
	10277	100	31.6	10.4	327.4	86.2	1705	5.2
	<b>11x7E</b>							
	3500	31	2.2	11.1	24.3	78.3	307	12.6
	4200	38	3.7	11	40.3	81.6	442	11
	4900	45	5.7	11	62.5	83.5	602	9.6
	5600	52	8.5	10.9	92.2	84.6	786	8.5
	6300	59	12.1	10.8	130.5	85	995	7.6
	7000	67	16.8	10.7	178.7	85.2	1228	6.9
	7700	75	22.6	10.6	238.1	85.1	1486	6.2
	8400	84	29.9	10.5	310	84.8	1769	5.7
	9100	94	38.9	10.3	395.8	84.5	2076	5.2
	9502	100	45.3	10.1	455.2	83.9	2263	5
	<b>12x6E</b>							
	3500	32	2.6	11	28.9	79.8	342	11.8
	4200	38	4.4	11	48.4	82.4	492	10.2
	4900	45	7	11	75.6	83.8	670	8.9
	5600	53	10.4	10.9	112.1	84.3	875	7.8
	6300	61	14.9	10.8	159.4	84.5	1107	6.9
	7000	69	20.7	10.7	219.1	84.3	1367	6.2
	7700	78	28.1	10.5	292.9	83.9	1654	5.6
	8400	88	37.5	10.3	382.5	83.5	1968	5.1
	9100	99	49.2	10.1	489.5	82.9	2310	4.7
	9177	100	51.1	10	506.2	82.5	2349	4.6

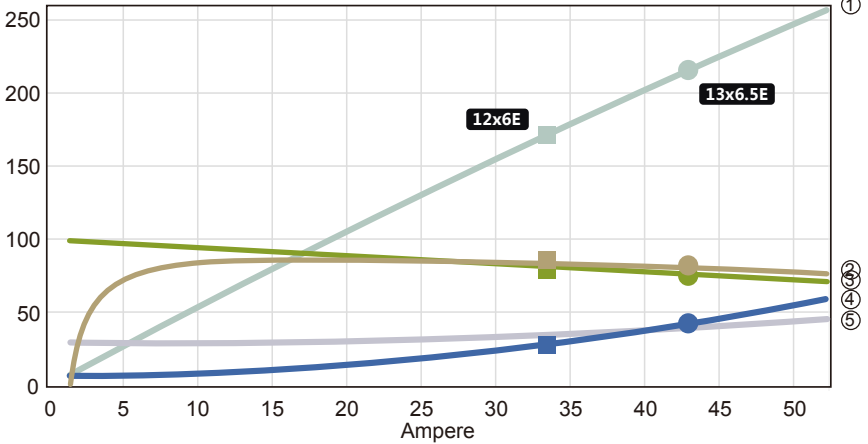
# ECO 2820C (940KV)

## 11.1V Motor @ Optimum Efficiency 最佳效率点



- ① el.Power [in 2W]
- ② Efficiency [%]
- ③ max. Revolutions [in 100rpm]
- ④ waste Power[W]
- ⑤ Motor Case Temp. [°C]

Motor Characteristics



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)	
<b>12x6E</b>									
11.1V (3S LIPO)	3000	32	1.7	11.1	18.4	78.8	251	13.6	
	3600	39	2.8	11	30.6	82.1	362	11.8	
	4200	45	4.3	11	47.6	83.9	492	10.3	
	4800	53	6.4	11	70.2	84.8	643	9.2	
	5400	60	9.2	10.9	99.4	85.3	813	8.2	
	6000	68	12.6	10.8	136.3	85.4	1004	7.4	
	6600	76	17	10.7	181.6	85.3	1215	6.7	
	7200	85	22.4	10.6	236.6	85	1446	6.1	
	7800	94	29	10.5	302.1	84.6	1697	5.6	
	8172	100	34	10.4	350.5	84	1863	5.3	
	<b>13x6.5E</b>								
	3000	33	2.4	11	26.7	81.3	346	13	
	3500	39	3.8	11	41.6	82.8	471	11.3	
	4000	45	5.6	11	61.5	83.6	615	10	
4500	51	8	10.9	87.4	83.8	778	8.9		
5000	58	11.1	10.9	120	83.7	961	8		
5500	65	15	10.8	160.3	83.4	1162	7.3		
6000	72	19.7	10.7	209.3	83	1383	6.6		
6500	80	25.6	10.6	267.8	82.4	1623	6.1		
7000	89	32.6	10.4	336.9	81.8	1883	5.6		
7500	98	41.2	10.2	417.7	81.2	2161	5.2		
7615	100	43.7	10.2	440.7	80.8	2228	5.1		

# 14.8V Motor @ Optimum Efficiency 最佳效率点

Current  
**23.49**  
A

Voltage  
**14.09**  
V

Revolutions\*  
**11998**  
rpm

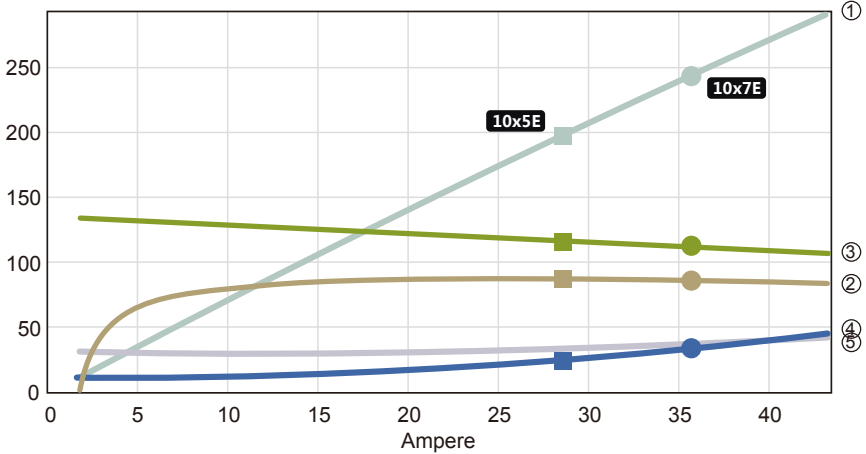
electric Power  
**331**  
W

mech. Power  
**289**  
W

Efficiency  
**87.3**  
%

- ① el. Power [in 2W]
- ② Efficiency [%]
- ③ max. Revolutions [in 100rpm]
- ④ waste Power[W]
- ⑤ Motor Case Temp. [°C]

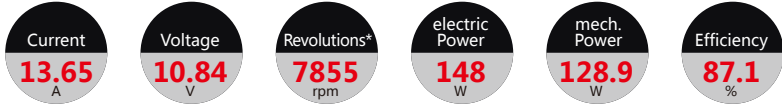
Motor Characteristics



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Volage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
14.8V (4S LIPO)	<b>10x5E</b>							
	3200	25	0.7	14.8	10.4	68	138	13.2
	4000	31	1.2	14.8	18.4	75.5	215	11.7
	4800	37	2	14.7	29.9	80.1	310	10.4
	5600	44	3.1	14.7	45.8	83	422	9.2
	6400	50	4.6	14.7	66.9	84.9	551	8.2
	7200	57	6.4	14.6	93.9	86.1	697	7.4
	8000	64	8.8	14.6	127.7	86.8	861	6.7
	8800	71	11.7	14.5	169.1	87.2	1042	6.2
	9600	79	15.3	14.4	218.9	87.5	1240	5.7
	10400	87	19.6	14.3	278.1	87.6	1455	5.2
	11200	95	24.7	14.1	347.4	87.5	1688	4.9
	11681	100	28.5	14	396.7	87.1	1836	4.6
	<b>10x7E</b>							
	3200	25	0.9	14.8	13.5	73.7	193	14.3
	4000	31	1.7	14.8	24.4	79.6	301	12.4
	4800	38	2.7	14.7	40.4	83	434	10.8
	5600	45	4.3	14.7	62.6	85	591	9.4
	6400	52	6.3	14.6	92.2	86.1	771	8.4
	7200	59	9	14.5	130.4	86.7	976	7.5
	8000	66	12.4	14.5	178.4	87	1205	6.8
	8800	74	16.6	14.3	237.3	87	1459	6.1
9600	82	21.9	14.2	308.5	86.9	1736	5.6	
10400	91	28.2	14	393.2	86.7	2037	5.2	
11192	100	36.1	13.8	495.4	86	2359	4.8	

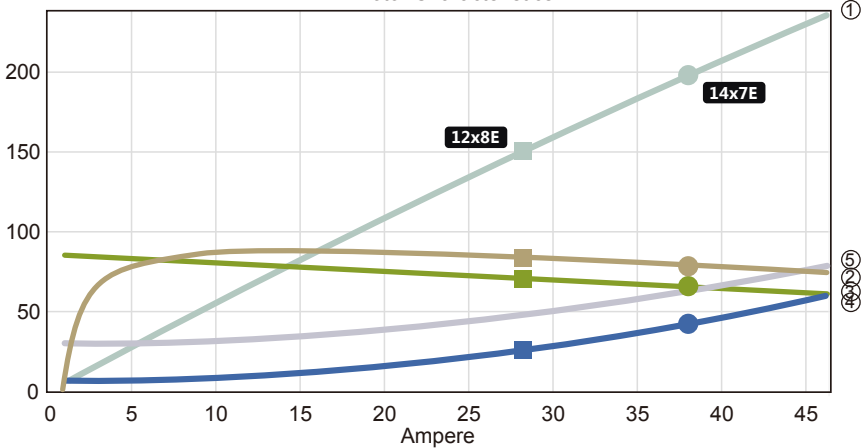
# ECO 2820C (800KV)

## 11.1V Motor @ Optimum Efficiency 最佳效率点



- ① el.Power [in 2W]
- ② Efficiency [%]
- ③ max. Revolutions [in 100rpm]
- ④ waste Power[W]
- ⑤ Motor Case Temp. [°C]

Motor Characteristics



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Volage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
11.1V (3S LIPO)	<b>12x8E</b>							
	2500	31	1.3	11.1	14.3	78.3	232	16.2
	3000	38	2.2	11.1	23.8	81.6	335	14.1
	3500	45	3.4	11	36.9	83.4	456	12.3
	4000	52	5	11	54.5	84.3	595	10.9
	4500	59	7.1	11	77.2	84.7	753	9.8
	5000	66	9.7	10.9	105.8	84.8	930	8.8
	5500	74	13	10.9	141.1	84.7	1125	8
	6000	82	17.1	10.8	183.9	84.3	1339	7.3
	6500	90	22	10.7	235	83.9	1572	6.7
	7000	99	27.9	10.6	295.2	83.4	1823	6.2
	7032	100	28.5	10.6	300.8	83.2	1839	6.1
	<b>14x7E</b>							
	2800	37	2.8	11.1	31.2	81.9	405	13
	3200	42	4.2	11	46.2	82.5	529	11.5
	3600	48	6	11	65.7	82.7	670	10.2
	4000	55	8.3	11	90.3	82.5	827	9.2
	4400	61	11.1	10.9	120.7	82.2	1001	8.3
	4800	68	14.6	10.9	157.7	81.6	1191	7.6
	5200	75	18.9	10.8	202	81	1398	6.9
5600	82	23.9	10.7	254.4	80.4	1621	6.4	
6000	90	30	10.6	315.7	79.6	1861	5.9	
6400	98	37.2	10.5	386.7	78.9	2117	5.5	
6465	100	38.7	10.5	401.2	78.6	2160	5.4	

**14.8V** Motor @ Optimum Efficiency 最佳效率点

Current  
**17.63**  
A

Voltage  
**14.37**  
V

Revolutions\*  
**10430**  
rpm

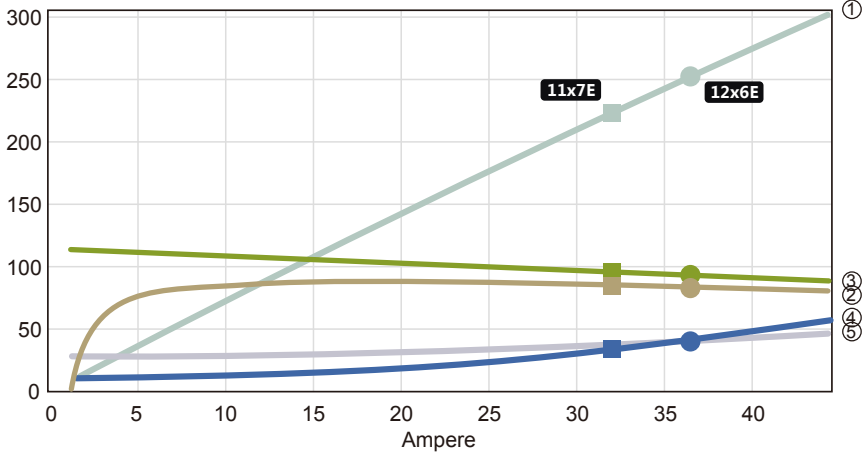
electric Power  
**253.4**  
W

mech. Power  
**221.8**  
W

Efficiency  
**87.5**  
%

- ① el. Power [in 2W]
- ② Efficiency [%]
- ③ max. Revolutions [in 100rpm]
- ④ waste Power[W]
- ⑤ Motor Case Temp. [°C]

Motor Characteristics



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
14.8V (4S LIPO)	<b>11x7E</b>							
	2800	26	0.9	14.8	12.8	76	197	15.3
	3500	32	1.6	14.8	23.5	81.1	307	13.1
	4200	39	2.7	14.7	39.2	83.9	442	11.3
	4900	46	4.2	14.7	61.1	85.4	602	9.8
	5600	54	6.2	14.7	90.4	86.1	786	8.7
	6300	61	8.8	14.6	128.3	86.4	995	7.8
	7000	69	12.2	14.5	176.1	86.4	1228	7
	7700	77	16.3	14.4	234.8	86.3	1486	6.3
	8400	85	21.5	14.3	306	85.9	1769	5.8
	9100	94	27.7	14.2	390.9	85.5	2076	5.3
	9541	100	32.5	14.1	455.1	84.9	2282	5
	<b>12x6E</b>							
	2800	26	1	14.8	15.1	78.2	219	14.5
	3500	33	1.9	14.8	28	82.4	342	12.2
	4200	40	3.2	14.7	47.2	84.5	492	10.4
	4900	47	5.1	14.7	74.1	85.5	670	9
	5600	55	7.6	14.6	110.2	85.8	875	7.9
	6300	62	10.8	14.6	156.9	85.8	1107	7.1
	7000	70	15	14.5	216	85.5	1367	6.3
7700	79	20.2	14.4	288.9	85.1	1654	5.7	
8400	88	26.7	14.2	377.4	84.6	1968	5.2	
9100	97	34.6	14	483.1	84	2310	4.8	
9268	100	37	14	514.9	83.5	2396	4.7	