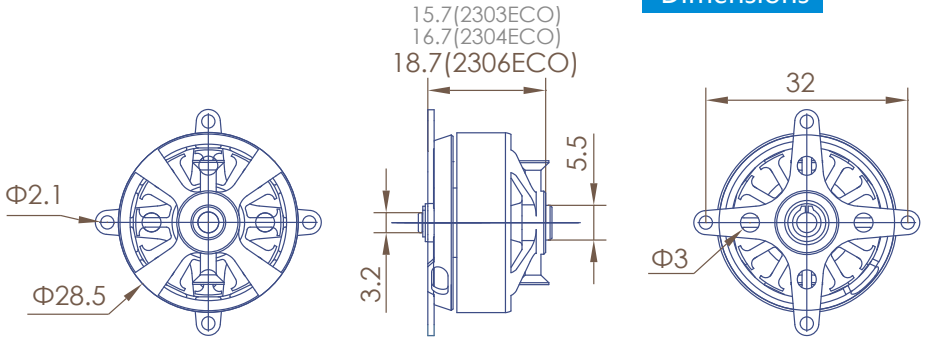




ECO 2306C-V2

Dimensions

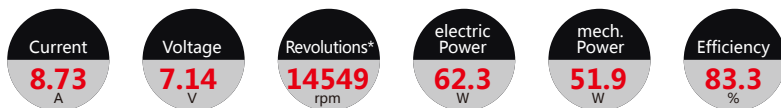


Specification

ECO-C Series	ECO 2306C		
SKU(商品编码)	51641	51642	51643
KV(KV值)	2300	1900	1500
Turns(匝数)	9.5	11.5	15
Weight(g)(重量)	30	30	30
Dimensions(D x L)[mm](尺寸)	28.8x20.9	28.8x20.9	28.8x20.9
Slots & Poles(槽数, 极数)	12N14P	12N14P	12N14P
Ri(mOhm)(电阻)	61.2	90.6	139.4
Io @10V (A)(空载电流)	1.1	0.8	0.5
No.of Cells(LiPo)(适用电池)	2.3	2.3	2.3
Max. EfficiencyCurrent[A](效率电流)	13.5	11	8.5
Max. Burst Current (15S)[A](最大电流)	22.5	18	14.2
Max. Power(15S)[W](最大功率)	180	144	170
Max. Torque [N*M](最大扭矩)	0.112	0.109	0.108
Shaft diameter(mm)(轴径)	3.175	3.175	3.175
Mountingholes pitch(安装孔距)	32	32	32
Input Connectors(输入链接)	GC2.0	GC2.0	GC2.0
RecommendedESC(调速器)	XC-22-LITE or XC1812BA	XC-22-LITE or XC1812BA	XC-12-LITE or XC1210BA
Propeller(螺旋桨)	2S: 8x4E, PT10x30i 3S: 5.1x4.5E, 6x3E	2S: 8x4E, 9x4E 3S: 6x3E, 6x5.5E	2S: 9x6E, 10x5E 3S: 7x5E, 8x4.7E
Class(适用机种)	200-300g airplanes.g. Popular EPP profile planes		

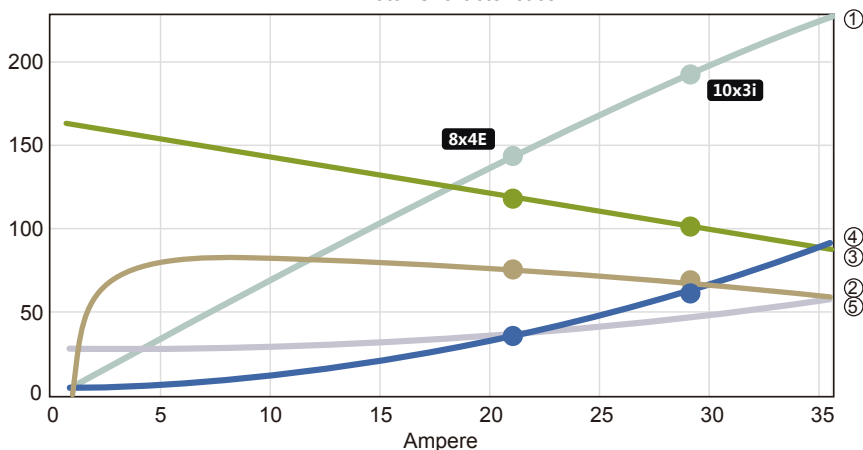
ECO 2306C (2300KV)

7.4V Motor @ Optimum Efficiency 最佳效率点



- ① el.Power [in 1W]
- 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)
8x4E								
7.4V (2S LIPO)	4000	28	0.9	7.4	6.2	72.9	88	14.2
	4800	34	1.4	7.4	10.3	76.1	127	12.3
	5600	40	2.2	7.4	16	77.6	173	10.8
	6400	47	3.3	7.3	23.8	78.3	226	9.5
	7200	54	4.7	7.3	33.8	78.4	286	8.5
	8000	61	6.6	7.3	46.5	78.1	353	7.6
	8800	69	8.9	7.2	62.3	77.6	427	6.8
	9600	77	11.7	7.2	81.6	76.9	508	6.2
	10400	86	15.2	7.1	104.7	76.2	596	5.7
	11200	95	19.5	7	132.2	75.4	691	5.2
	11576	100	22	6.9	148.1	74.6	738	5
	10x3i							
4900	38	2.8	7.3	20.5	74.5	194	9.5	
5600	45	4.3	7.3	30.8	74.1	253	8.2	
6300	52	6.2	7.3	44.3	73.2	320	7.2	
7000	59	8.8	7.2	61.7	72.2	396	6.4	
7700	67	12	7.2	83.5	71	479	5.7	
8400	76	16	7.1	110.2	69.8	570	5.2	
9100	86	21.1	7	142.7	68.6	668	4.7	
9800	96	27.4	6.8	181.6	67.3	775	4.3	
9999	100	29.7	6.8	195.6	66.7	807	4.1	

11.1V Motor @ Optimum Efficiency 最佳效率点

Current
12.7
A

Voltage
10.62
V

Revolutions*
21693
rpm

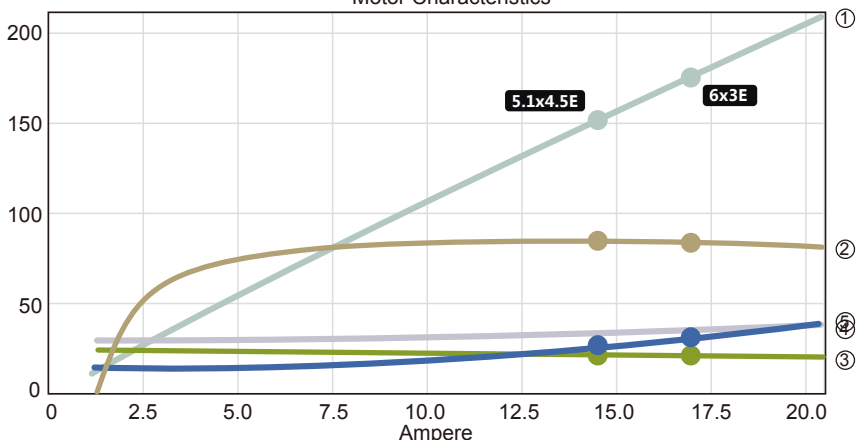
electric Power
134.8
W

mech. Power
113
W

Efficiency
83.8
%

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

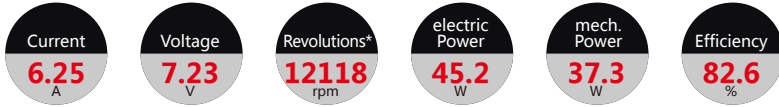
Motor Characteristics



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
11.1V (3S LIPO)	5.1x4.5E							
	3200	14	0.1	11.1	1.3	33.5	16	12.8
	4800	20	0.3	11.1	2.8	52.2	37	13.2
	6400	27	0.5	11.1	5.4	64.4	66	12.3
	8000	34	0.8	11.1	9.4	72.1	103	11
	9600	41	1.4	11.1	15.2	76.9	148	9.8
	11200	49	2.1	11	23.2	79.9	201	8.7
	12800	56	3.1	11	33.8	81.8	263	7.8
	14400	64	4.4	11	47.4	83	333	7
	16000	72	5.9	10.9	64.5	83.7	411	6.4
	17600	80	7.9	10.9	85.4	84.2	498	5.8
	19200	88	10.3	10.8	110.6	84.4	592	5.4
	20800	97	13.3	10.7	140.5	84.4	695	4.9
	21283	100	14.4	10.7	151.9	83.8	728	4.8
	6x3E							
	4500	19	0.3	11.1	2.8	54.7	35	12.6
	6000	26	0.5	11.1	5.5	66.6	63	11.5
	7500	32	0.9	11.1	9.6	73.7	98	10.2
	9000	39	1.4	11.1	15.7	78.1	141	9
	10500	46	2.2	11	24.1	80.7	192	8
	12000	53	3.2	11	35.3	82.3	251	7.1
13500	61	4.6	11	49.7	83.3	318	6.4	
15000	68	6.3	10.9	67.8	83.8	392	5.8	
16500	76	8.4	10.8	90	84.1	475	5.3	
18000	84	11	10.8	116.7	84.1	565	4.8	
19500	93	14.1	10.7	148.6	84	663	4.5	
20636	100	17.1	10.6	178.4	83.2	742	4.2	

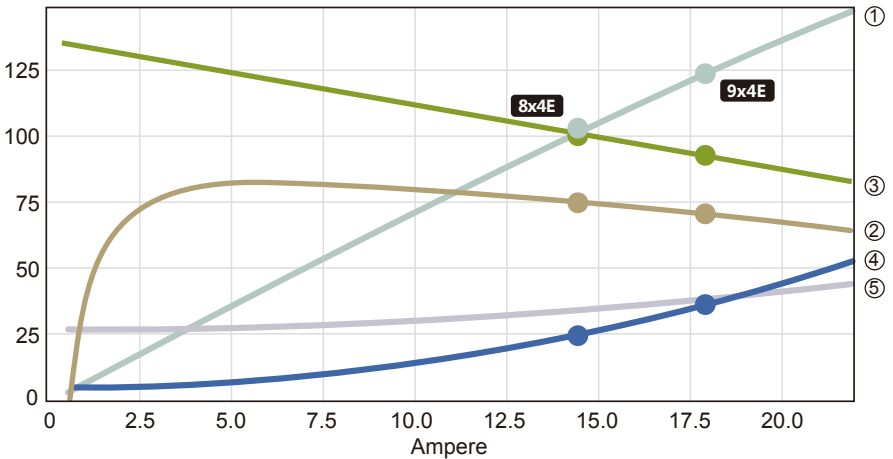
ECO 2306C (1900KV)

7.4V Motor @ Optimum Efficiency 最佳效率点



- ① el.Power [in 1W]
- 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)
8x4E								
7.4V (2S LIPO)	3500	29	0.6	7.4	4.3	71	68	15.8
	4200	35	1	7.4	7	74.8	97	13.8
	4900	41	1.5	7.4	10.8	77	132	12.2
	5600	48	2.2	7.4	15.9	78.1	173	10.8
	6300	55	3.1	7.3	22.6	78.6	219	9.7
	7000	62	4.3	7.3	30.9	78.6	270	8.7
	7700	70	5.7	7.3	41.3	78.4	327	7.9
	8400	78	7.5	7.2	53.9	78	389	7.2
	9100	86	9.7	7.2	69	77.4	456	6.6
	9800	95	12.3	7.1	86.9	76.8	529	6.1
	10195	100	14.2	7.1	99.2	76	573	5.8
	9x4E							
	3500	30	0.9	7.4	6.6	73.6	96	14.5
	4200	37	1.5	7.4	11.2	75.4	138	12.4
	4900	44	2.4	7.4	17.6	75.8	188	10.7
	5600	52	3.7	7.3	26.4	75.6	246	9.3
	6300	60	5.3	7.3	37.9	75	311	8.2
	7000	69	7.4	7.2	52.6	74.1	384	7.3
	7700	78	10	7.2	71	73.1	465	6.6
	8400	88	13.4	7.1	93.5	72	554	5.9
	9100	98	17.5	7	120.8	70.9	650	5.4
	9194	100	18.3	7	126	70.4	663	5.3

11.1V Motor @ Optimum Efficiency 最佳效率点

Current
8.57
A

Voltage
10.23
V

Revolutions*
17202
rpm

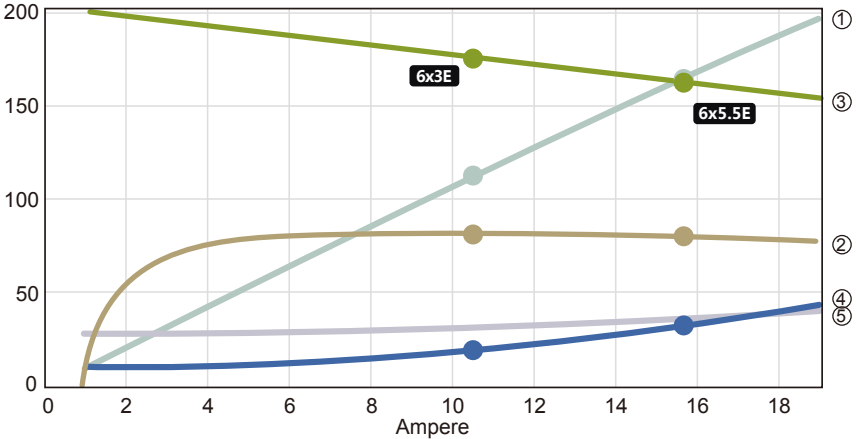
electric Power
87.7
W

mech. Power
73
W

Efficiency
83.2
%

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

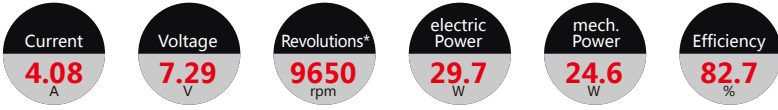
Motor Characteristics



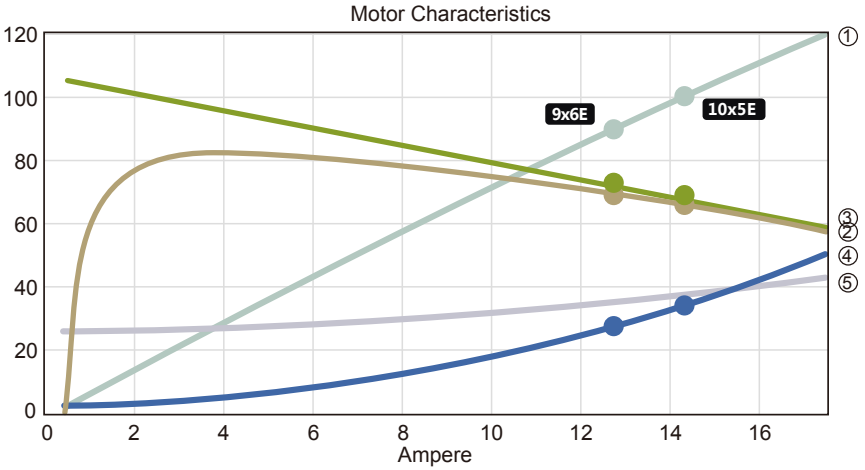
Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
11.1V (3S LIPO)	6x3E							
	5200	27	0.3	11.1	3.8	62.5	47	12.5
	6500	34	0.6	11.1	6.6	70.5	74	11.2
	7800	41	1	11.1	10.6	75.6	106	10
	9100	48	1.5	11.1	16.1	78.8	144	9
	10400	55	2.1	11	23.4	80.9	189	8.1
	11700	63	3	11	32.8	82.2	239	7.3
	13000	70	4.1	11	44.5	83	295	6.6
	14300	78	5.4	10.9	58.9	83.5	357	6
	15600	86	7.1	10.9	76.3	83.8	424	5.6
	16900	95	9	10.8	96.9	83.8	498	5.1
	17702	100	10.5	10.8	112.5	83.1	546	4.9
	6x5.5E							
	3600	19	0.2	11.1	2.4	59.4	41	17.1
	4800	25	0.4	11.1	4.9	70.1	74	15.1
	6000	32	0.8	11.1	8.8	76	115	13.1
	7200	39	1.3	11.1	14.5	79.3	166	11.4
	8400	46	2.1	11	22.6	81.1	226	10
	9600	53	3	11	33.3	82	295	8.8
	10800	61	4.3	11	47.2	82.4	373	7.9
12000	69	6	10.9	64.7	82.4	460	7.1	
13200	77	8	10.9	86.3	82.2	557	6.5	
14400	85	10.6	10.8	112.6	81.8	663	5.9	
15600	94	13.6	10.7	144	81.4	778	5.4	
16292	100	15.9	10.6	166.8	80.4	849	5.1	

ECO 2306C (1500KV)

7.4V Motor @ Optimum Efficiency 最佳效率点



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



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
7.4V (2S LIPO)	9x6E							
	3000	34	0.8	7.4	6.2	74.1	106	17.1
	3500	40	1.3	7.4	9.8	74.7	144	14.7
	4000	47	2	7.4	14.6	74.6	188	12.9
	4500	54	2.9	7.3	21	74.1	238	11.4
	5000	62	4	7.3	29.1	73.3	294	10.1
	5500	70	5.5	7.3	39.2	72.3	356	9.1
	6000	78	7.2	7.3	51.7	71.3	424	8.2
	6500	87	9.4	7.2	66.7	70.1	497	7.5
	7000	97	12.1	7.2	84.7	69	577	6.8
	7149	100	13	7.1	91.4	68.4	602	6.6
	10x5E							
	3500	42	1.8	7.4	12.7	72.9	165	12.9
	4000	50	2.7	7.3	19.2	72.1	215	11.2
	4500	58	3.8	7.3	27.7	71.1	272	9.8
	5000	66	5.4	7.3	38.7	69.8	336	8.7
	5500	75	7.4	7.2	52.6	68.5	407	7.7
6000	85	9.9	7.2	69.6	67.1	484	7	
6500	95	12.9	7.1	90.4	65.8	568	6.3	
6720	100	14.6	7.1	101.6	64.9	608	6	

11.1V Motor @ Optimum Efficiency 最佳效率点

Current
5.82
A

Voltage
10.86
V

Revolutions*
14450
rpm

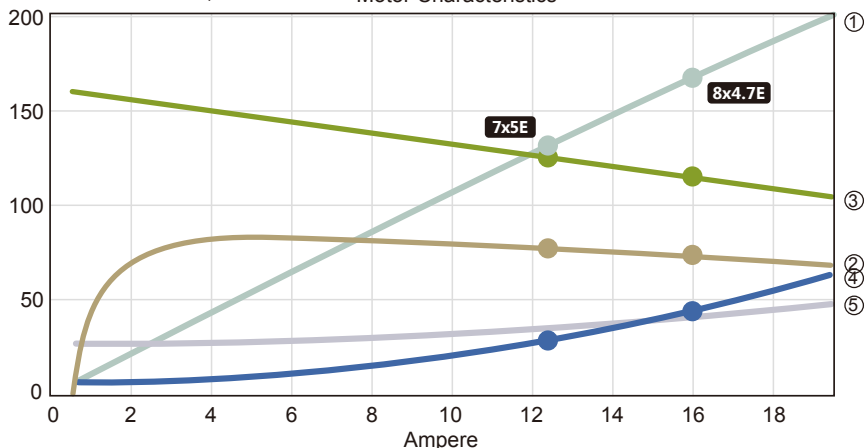
electric Power
63.2
W

mech. Power
52.8
W

Efficiency
83.5
%

- ① el. Power [in 1W]
- 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)	
7x5E									
11.1V (3S LIPO)	2700	18	0.2	11.1	1.7	61.2	34	20.1	
	3600	24	0.3	11.1	3.4	71.2	60	17.6	
	4500	31	0.6	11.1	6.2	76.5	93	15.1	
	5400	37	0.9	11.1	10.3	79.4	135	13	
	6300	44	1.5	11.1	16.1	80.8	183	11.4	
	7200	51	2.2	11	23.8	81.4	239	10	
	8100	59	3.1	11	33.9	81.4	303	8.9	
	9000	66	4.3	11	46.6	81.2	374	8	
	9900	74	5.8	10.9	62.4	80.8	452	7.2	
	10800	83	7.6	10.9	81.6	80.2	538	6.6	
	11700	91	9.8	10.8	104.6	79.6	632	6	
	12533	100	12.4	10.7	131.2	78.4	725	5.5	
	8x4.7E								
	11.1V (3S LIPO)	3200	22	0.3	11.1	3.7	73	66	17.7
4000		28	0.6	11.1	6.9	76.9	104	14.9	
4800		35	1.1	11.1	11.7	78.6	149	12.7	
5600		41	1.7	11	18.5	79.1	203	11	
6400		48	2.5	11	27.6	79	265	9.6	
7200		55	3.6	11	39.6	78.5	336	8.5	
8000		63	5.1	10.9	54.9	77.8	414	7.6	
8800		71	6.9	10.9	73.9	76.9	501	6.8	
9600		79	9.1	10.8	97.1	75.9	597	6.1	
10400		88	11.8	10.7	125.1	74.9	700	5.6	
11200		97	15.1	10.6	158.4	73.9	812	5.1	
11399		100	16.3	10.6	169.7	73.1	841	5	