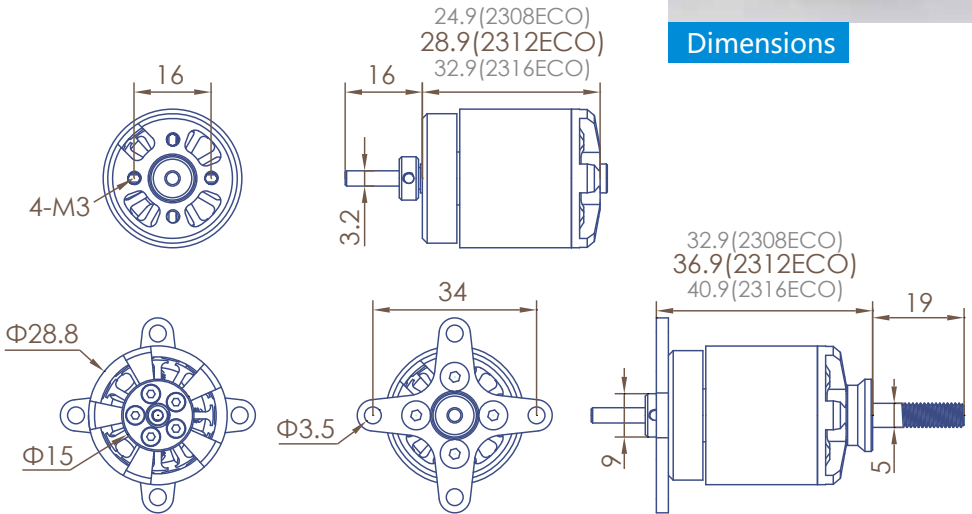




Dimensions



Specification

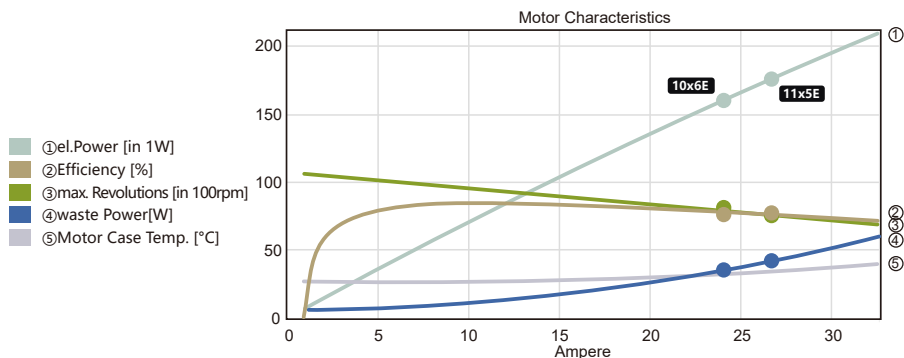
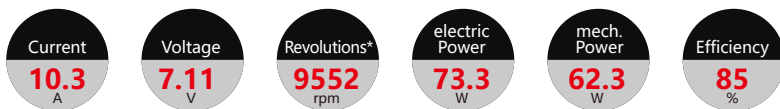
ECO-C Series	ECO 2312C		
SKU(商品编码)	51648	51649	51650
KV(KV值)	1500	1150	960
Turns(匝数)	7	9.5	11.5
Weight(g)(重量)	58	58	58
Dimensions(D x L)[mm](尺寸)	28.8x28.9	28.8x28.9	28.8x28.9
Slots & Poles(槽数, 极数)	12N14P	12N14P	12N14P
Ri(mOhm)(电阻)	46.4	90.8	123.5
Io @10V (A)(空载电流)	1.1	0.7	0.5
No.of Cells(LiPo)(适用电池)	2.3	2.3	3.4
Max. EfficiencyCurrent[A](效率电流)	16	14	13
Max. Burst Current (15S)[A](峰值电流)	26	23	21.5
Max. Power(15S)[W](峰值功率)	208	276	258
Max. Torque [N*M](峰值扭矩)	0.20	0.23	0.26
Shaft diameter(mm)(轴径)	3.175	3.175	3.175
Mountingholes pitch(安装孔距)	16/16	16/16	16/16
Input Connectors(输入链接)	GC3.5	GC3.5	GC3.5
RecommendedESC(调速器)	XC-22-LITE or XC2512BA	XC-22-LITE or XC2512BA	XC-22-LITE or XC2512BA
Propeller(螺旋桨)	2S: 11x5E, 10X6E 3S: 7X5E, 8X4E	2S: 11X7E, 12X6E 3S: 9x6E, 10x5E	3S: 10x5E, 10X7E 4S: 9X4.5E, 8X6E
Class(适用机种)	400 size, 400-800g sports airplanes		

Specification

ECO-C Series	ECO 2312C	
SKU(商品编码)	51651	51685
KV(KV值)	840	760
Turns(匝数)	13	14.5
Weight(g)(重量)	58	58
Dimensions(D x L)[mm](尺寸)	28.8x28.9	28.8x28.9
Slots & Poles(槽数, 极数)	12N14P	12N14P
Ri(mOhm)(电阻)	140.0	164
Io @10V (A)(空载电流)	0.5	0.4
No.of Cells(LiPo)(适用电池)	3.4	4.5
Max. EfficiencyCurrent[A](效率电流)	12	10
Max. Burst Current (15S)[A](峰值电流)	19	16
Max. Power(15S)[W](峰值功率)	304	256
Max. Torque [N*M](峰值扭矩)	0.26	0.24
Shaft diameter(mm)(轴径)	3.175	3.175
Mountingholes pitch(安装孔距)	16/16	16/16
Input Connectors(输入链接)	GC3.5	GC3.5
RecommendedESC(调速器)	XC-22-LITE or XC2512BA	XC-22-LITE or XC2512BA
Propeller(螺旋桨)	3S: 11x7E, 12x6E 4S: 9x6E, 10x5E	4S: 11x5E, 10x5E 5S: 9x6, 8x5E
Class(适用机种)	400 size, 400-800g sports airplanes	

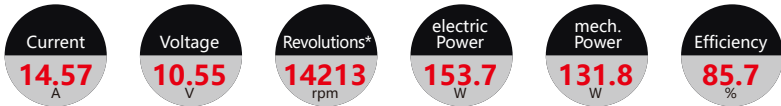
ECO 2312C (1500KV)

7.4V Motor @ Optimum Efficiency 优化效率点



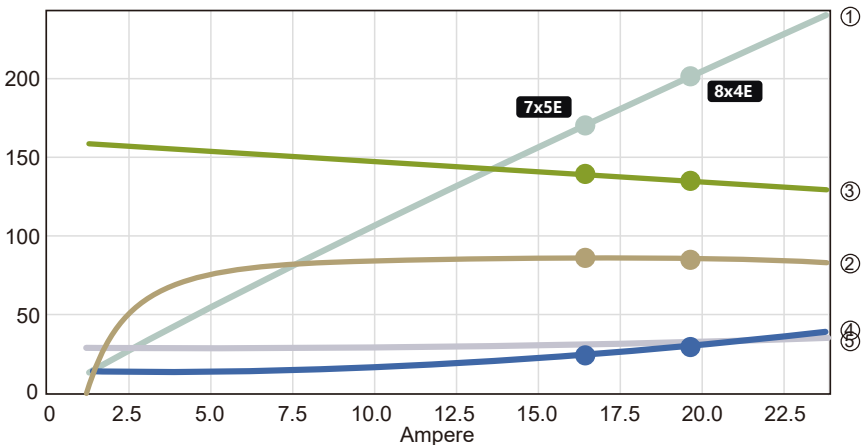
Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Volage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
7.4V (2S LIPO)	10x6E							
	3000	32	1.5	7.4	11.1	77.2	161	14.5
	3500	38	2.4	7.4	17.2	78.9	219	12.7
	4000	44	3.5	7.3	25.5	79.6	287	11.2
	4500	51	5.1	7.3	36.2	79.8	363	10
	5000	58	7	7.3	49.8	79.6	448	9
	5500	65	9.5	7.2	66.6	79.2	542	8.1
	6000	72	12.5	7.1	87.1	78.6	645	7.4
	6500	80	16.2	7.1	111.7	77.9	757	6.8
	7000	89	20.7	7	140.8	77.2	877	6.2
	7500	99	26.2	6.9	175	76.4	1007	5.8
	7561	100	27.2	6.8	180.6	76.1	1024	5.7
	11x5E							
	2400	25	0.7	7.4	5.1	71.1	93	18.4
	3000	31	1.3	7.4	9.2	76.3	145	15.8
	3600	38	2.1	7.4	15.3	79	209	13.6
	4200	45	3.3	7.3	24	80.3	285	11.9
	4800	53	5	7.3	35.5	80.8	372	10.5
	5400	61	7.1	7.3	50.6	80.8	471	9.3
	6000	69	9.9	7.2	69.7	80.5	581	8.3
	6600	78	13.4	7.1	93.4	80	703	7.5
	7200	88	17.8	7	122.3	79.3	837	6.8
	7800	98	23.2	6.9	156.9	78.6	982	6.3
	7893	100	24.4	6.9	163.8	78.2	1006	6.1

11.1V Motor @ Optimum Efficiency 优化效率点



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

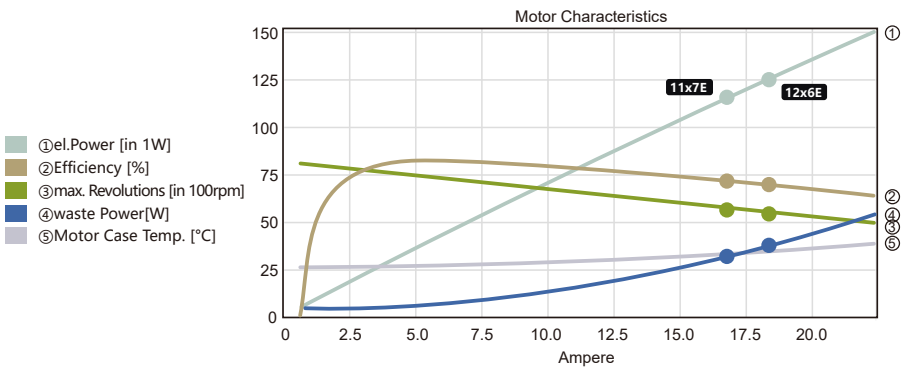
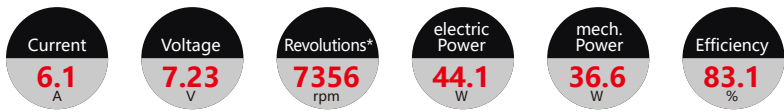
Motor Characteristics



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Volage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)	
7x5E									
11.1V (3S LIPO)	3000	19	0.3	11.1	2.8	50	42	14.8	
	4000	26	0.5	11.1	5.3	62.9	74	14	
	5000	32	0.8	11.1	9.1	71.2	115	12.6	
	6000	39	1.3	11.1	14.7	76.6	166	11.3	
	7000	46	2	11	22.3	80	226	10.2	
	8000	53	3	11	32.3	82.3	295	9.1	
	9000	60	4.1	11	45.2	83.9	374	8.3	
	10000	68	5.7	10.9	61.3	84.8	461	7.5	
	11000	75	7.5	10.9	80.9	85.5	558	6.9	
	12000	83	9.8	10.8	104.6	85.9	664	6.4	
	13000	91	12.5	10.7	132.6	86.1	780	5.9	
	14028	100	16	10.6	167.5	85.7	908	5.4	
	8x4E								
	4000	26	0.6	11.1	6.6	68.8	88	13.4	
5000	33	1.1	11.1	11.7	75.8	138	11.8		
6000	40	1.7	11	19.2	79.9	198	10.4		
7000	47	2.7	11	29.5	82.5	270	9.2		
8000	54	4	11	43.2	84	353	8.2		
9000	62	5.6	10.9	60.9	85	446	7.3		
10000	69	7.7	10.9	83	85.5	551	6.6		
11000	78	10.3	10.8	110.2	85.7	667	6.1		
12000	86	13.6	10.7	143	85.7	794	5.5		
13000	95	17.5	10.6	182	85.6	931	5.1		
13504	100	19.9	10.5	205.9	85.1	1005	4.9		

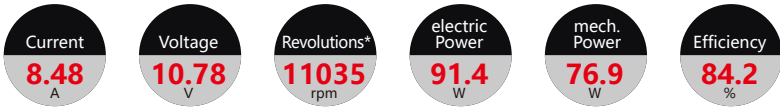
ECO 2312C (1150KV)

7.4V Motor @ Optimum Efficiency 优化效率点



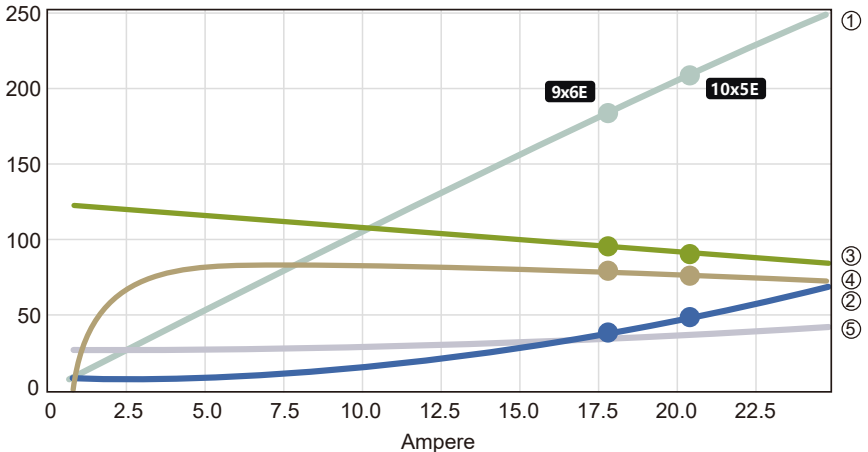
Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
7.4V (2S LIPO)	11x7E							
	2800	41	1.8	7.4	12.8	75.9	197	15.3
	3200	47	2.6	7.3	19	76.5	257	13.5
	3600	55	3.7	7.3	27.1	76.4	325	12
	4000	62	5.2	7.3	37.4	76	401	10.7
	4400	70	7	7.3	50.1	75.4	485	9.7
	4800	78	9.3	7.2	65.7	74.6	578	8.8
	5200	87	12	7.2	84.6	73.8	678	8
	5600	96	15.4	7.1	106.9	72.9	786	7.4
	5757	100	16.9	7.1	117.4	72.3	831	7.1
	12x6E							
	2400	35	1.4	7.4	10	74.4	161	16.1
	2800	42	2.2	7.4	15.7	75.2	219	13.9
	3200	49	3.2	7.3	23.5	75.1	286	12.2
	3600	57	4.7	7.3	33.7	74.6	362	10.7
	4000	65	6.5	7.3	46.7	73.8	446	9.6
	4400	73	8.9	7.2	62.9	72.9	540	8.6
	4800	82	11.8	7.2	82.9	71.9	643	7.8
	5200	92	15.4	7.1	107	70.8	754	7
	5498	100	18.7	7	128.7	69.7	843	6.6

11.1V Motor @ Optimum Efficiency 优化效率点



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

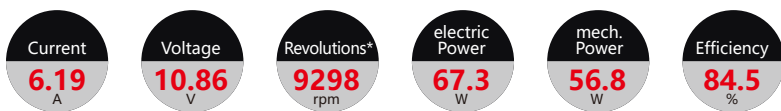
Motor Characteristics



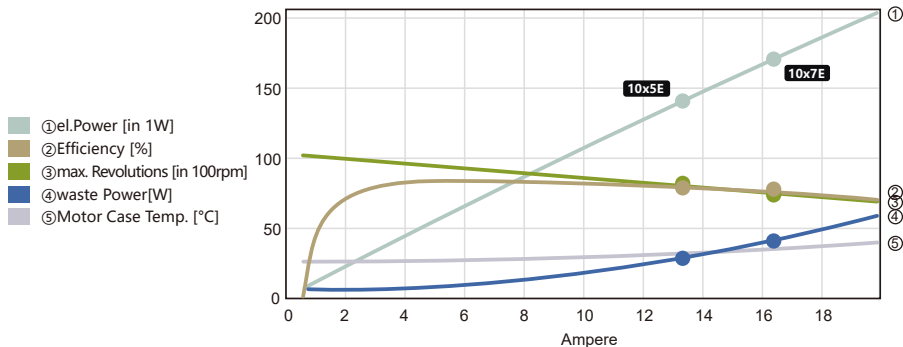
Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)	
9x6E									
11.1V (3S LIPO)	2800	25	0.5	11.1	5.3	71	92	17.5	
	3500	31	0.9	11.1	9.6	76.5	144	15.1	
	4200	38	1.4	11.1	15.9	79.4	208	13.1	
	4900	45	2.3	11	24.8	80.9	283	11.4	
	5600	52	3.4	11	36.7	81.6	369	10.1	
	6300	60	4.8	11	52.1	81.7	467	9	
	7000	68	6.6	10.9	71.7	81.5	577	8	
	7700	76	8.9	10.8	95.9	81.2	698	7.3	
	8400	85	11.8	10.7	125.3	80.6	830	6.6	
	9100	94	15.3	10.6	160.5	80	975	6.1	
	9528	100	18	10.5	187.1	79.1	1069	5.7	
	10x5E								
	3000	27	0.7	11.1	7.8	75.1	121	15.6	
	3600	33	1.2	11.1	12.9	78.2	174	13.5	
	4200	39	1.8	11	20.1	79.8	237	11.8	
	4800	45	2.7	11	29.8	80.5	310	10.4	
	5400	52	3.9	11	42.3	80.6	392	9.3	
	6000	59	5.4	10.9	58.1	80.4	484	8.3	
6600	66	7.2	10.9	77.8	80	586	7.5		
7200	73	9.5	10.8	101.7	79.4	697	6.9		
7800	81	12.3	10.7	130.4	78.8	819	6.3		
8400	89	15.7	10.6	164.4	78.1	949	5.8		
9000	98	19.7	10.5	204.2	77.3	1090	5.3		
9096	100	20.7	10.5	213.3	76.7	1113	5.2		

ECO 2312C (960KV)

11.1V Motor @ Optimum Efficiency 优化效率点

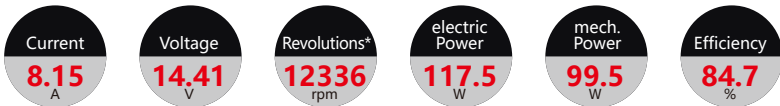


Motor Characteristics



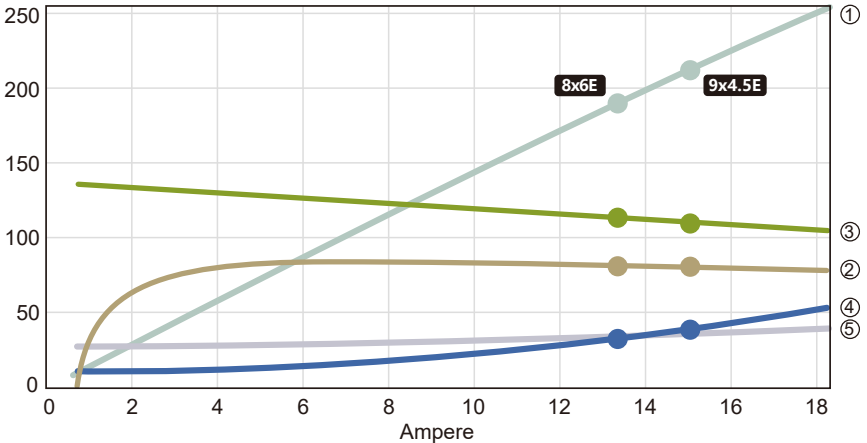
Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Volage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
11.1V (3S LIPO)	10x5E							
	3000	32	0.7	11.1	7.6	76.5	121	15.8
	3600	39	1.2	11.1	12.7	79.4	174	13.7
	4200	46	1.8	11	19.8	80.8	237	12
	4800	54	2.7	11	29.4	81.4	310	10.5
	5400	61	3.8	11	41.8	81.5	392	9.4
	6000	69	5.3	10.9	57.5	81.3	484	8.4
	6600	78	7.1	10.9	76.9	80.9	586	7.6
	7200	86	9.4	10.8	100.6	80.3	697	6.9
	7800	96	12.1	10.7	128.9	79.7	819	6.3
	8058	100	13.6	10.7	143.8	79	873	6.1
	10x7E							
	3000	33	1	11.1	10.5	77.9	170	16.1
	3500	39	1.5	11.1	16.4	79.3	231	14.1
	4000	46	2.2	11	24.3	79.8	301	12.4
	4500	52	3.2	11	34.6	79.8	381	11
	5000	59	4.4	11	47.7	79.5	471	9.9
	5500	66	5.9	10.9	63.9	78.9	570	8.9
	6000	74	7.8	10.9	83.6	78.3	678	8.1
	6500	82	10.1	10.8	107.4	77.5	796	7.4
7000	90	12.8	10.7	135.5	76.7	923	6.8	
7500	99	16.1	10.6	168.5	75.9	1059	6.3	
7553	100	16.6	10.6	173.8	75.4	1074	6.2	

14.8V Motor @ Optimum Efficiency 优化效率点



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

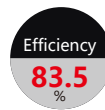
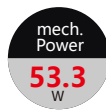
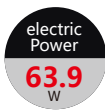
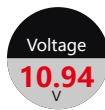
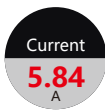
Motor Characteristics



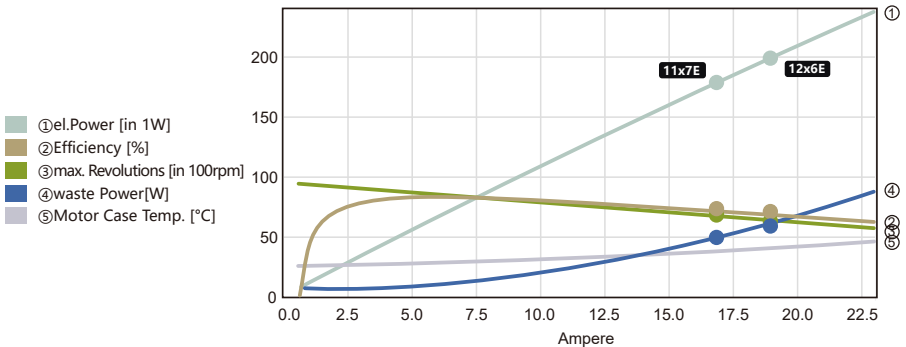
Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Volage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
14.8V (4S LIPO)	8x6E							
	3200	25	0.3	14.8	5	70.2	85	17
	4000	31	0.6	14.8	8.9	76.5	132	14.9
	4800	38	1	14.8	14.7	80.1	190	13
	5600	44	1.5	14.7	22.7	82.2	259	11.4
	6400	51	2.3	14.7	33.4	83.4	339	10.1
	7200	58	3.2	14.7	47.3	84	429	9.1
	8000	66	4.4	14.6	64.7	84.2	529	8.2
	8800	73	5.9	14.6	86.1	84.2	640	7.4
	9600	81	7.8	14.5	112.1	84	762	6.8
	10400	89	10	14.4	143	83.7	894	6.3
	11200	98	12.6	14.3	179.4	83.3	1037	5.8
	11389	100	13.5	14.2	190.9	82.6	1072	5.6
	9x4.5E							
	3200	25	0.4	14.8	5.8	72.8	90	15.7
	4000	31	0.7	14.8	10.5	78.2	141	13.5
	4800	38	1.2	14.8	17.4	81.1	203	11.7
	5600	45	1.9	14.7	27.1	82.7	277	10.2
	6400	52	2.7	14.7	40.2	83.4	362	9
	7200	60	3.9	14.6	57	83.7	458	8
	8000	67	5.4	14.6	78.3	83.6	565	7.2
	8800	75	7.3	14.5	104.5	83.3	684	6.5
9600	83	9.5	14.4	136.4	82.9	813	6	
10400	92	12.3	14.3	174.5	82.4	955	5.5	
11078	100	15.3	14.2	214.5	81.4	1083	5.1	

ECO 2312C (840KV)

11.1V Motor @ Optimum Efficiency 优化效率点

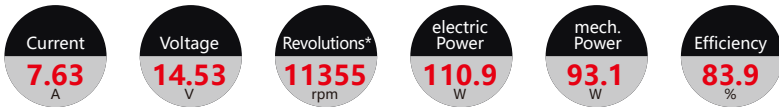


Motor Characteristics



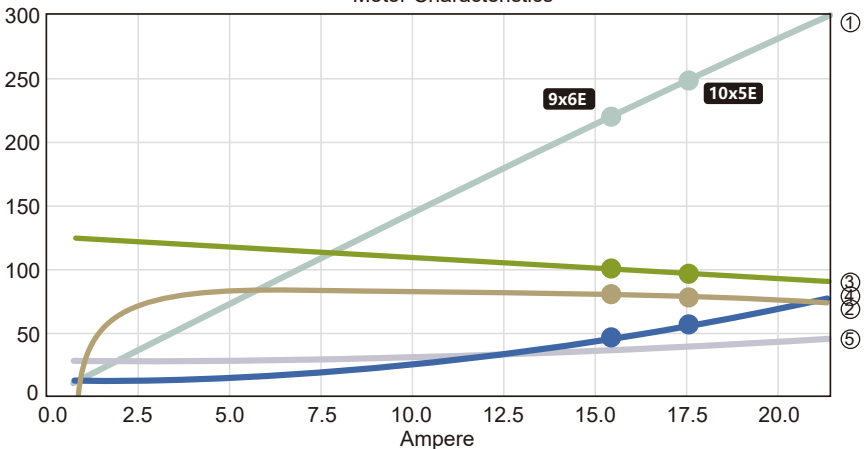
Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
11.1V (3S LIPO)	11x7E							
	2500	31	0.8	11.1	9.2	75.4	157	17
	3000	37	1.4	11.1	15.6	77	226	14.5
	3500	45	2.2	11.1	24.6	77.4	307	12.5
	4000	52	3.4	11	36.8	77.2	401	10.9
	4500	60	4.8	11	52.8	76.5	508	9.6
	5000	69	6.7	11	73.3	75.7	627	8.6
	5500	77	9.2	10.9	98.8	74.7	758	7.7
	6000	87	12.1	10.8	130.2	73.6	902	6.9
	6500	96	15.8	10.8	168	72.5	1059	6.3
	6672	100	17.4	10.7	184.2	71.8	1116	6.1
	12x6E							
	2400	30	0.9	11.1	9.9	75.1	161	16.2
	2800	36	1.4	11.1	15.5	76	219	14.1
	3200	42	2.1	11.1	23.2	76.2	286	12.3
	3600	48	3	11	33.1	75.9	362	10.9
	4000	54	4.2	11	45.8	75.3	446	9.7
	4400	61	5.7	11	61.6	74.4	540	8.8
	4800	68	7.5	10.9	81	73.5	643	7.9
	5200	76	9.7	10.9	104.4	72.5	754	7.2
5600	83	12.3	10.8	132.3	71.5	875	6.6	
6000	92	15.5	10.8	165.1	70.4	1004	6.1	
6376	100	19.2	10.7	202.7	69.1	1134	5.6	

14.8V Motor @ Optimum Efficiency 优化效率点



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

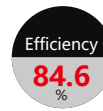
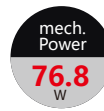
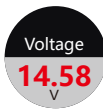
Motor Characteristics



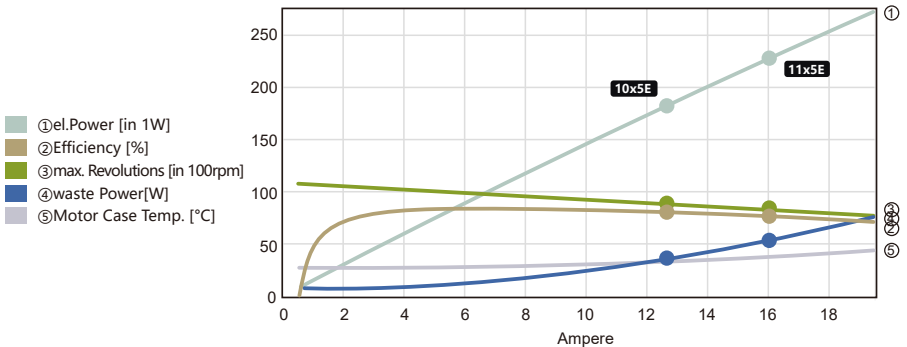
Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
14.8V (4S LIPO)	9x6E							
	2800	24	0.4	14.8	5.3	70.5	92	17.4
	3500	30	0.6	14.8	9.6	76.3	144	15.1
	4200	37	1.1	14.8	15.9	79.5	208	13.1
	4900	43	1.7	14.8	24.7	81.2	283	11.4
	5600	50	2.5	14.7	36.5	82	369	10.1
	6300	57	3.5	14.7	51.8	82.3	467	9
	7000	65	4.9	14.7	71.1	82.2	577	8.1
	7700	72	6.5	14.6	94.9	82	698	7.4
	8400	80	8.6	14.6	123.9	81.5	830	6.7
	9100	88	11	14.5	158.6	81	975	6.1
	9800	97	13.9	14.4	199.5	80.4	1130	5.7
	10061	100	15.4	14.4	219.1	79.6	1191	5.4
	10x5E							
	2800	24	0.4	14.8	6.5	73.4	105	16.3
	3500	31	0.8	14.8	11.9	77.9	165	13.8
	4200	37	1.4	14.8	20	80.1	237	11.9
	4900	44	2.1	14.7	31.4	81	323	10.3
	5600	52	3.2	14.7	46.8	81.3	422	9
	6300	59	4.6	14.7	66.7	81.1	534	8
	7000	67	6.3	14.6	92.1	80.6	659	7.2
	7700	75	8.5	14.6	123.5	80	798	6.5
	8400	84	11.3	14.5	161.8	79.3	949	5.9
	9100	92	14.6	14.4	207.8	78.5	1114	5.4
	9647	100	17.8	14.3	252.8	77.3	1252	5

ECO 2312C (760KV)

14.8V Motor @ Optimum Efficiency 优化效率点

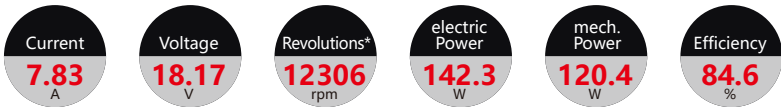


Motor Characteristics



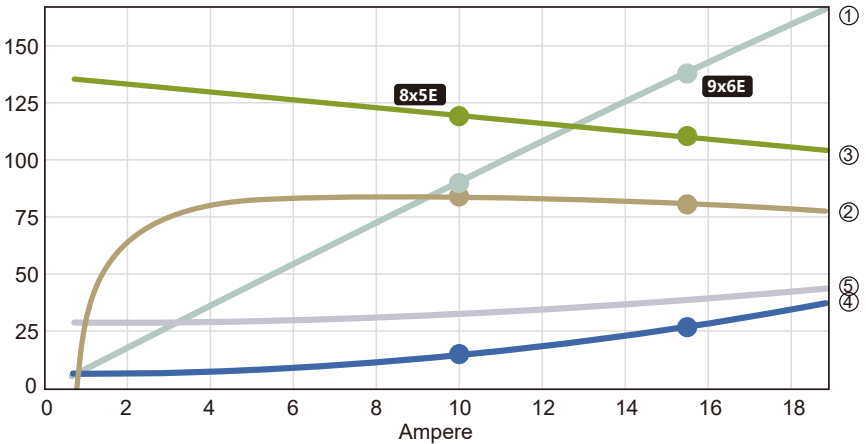
Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Voltage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
14.8V (4S LIPO)	10x5E							
	3000	30	0.5	14.8	7.7	75.9	121	15.7
	3600	36	0.9	14.8	12.7	79.4	174	13.7
	4200	43	1.3	14.8	19.7	81.2	237	12
	4800	49	2	14.7	29.1	82.2	310	10.6
	5400	56	2.8	14.7	41.3	82.6	392	9.5
	6000	64	3.9	14.7	56.6	82.6	484	8.6
	6600	71	5.2	14.7	75.5	82.4	586	7.8
	7200	78	6.8	14.6	98.4	82.1	697	7.1
	7800	86	8.7	14.6	125.9	81.6	819	6.5
	8400	94	11	14.5	158.3	81.1	949	6
	8793	100	12.8	14.4	184.2	80.2	1040	5.6
	11x5E							
	3000	31	0.7	14.8	10.9	78.3	161	14.7
	3600	38	1.3	14.8	18.4	80.2	232	12.6
	4200	45	2	14.7	29	80.9	316	10.9
	4800	52	3	14.7	43.3	80.9	413	9.5
	5400	59	4.2	14.7	62	80.5	522	8.4
	6000	67	5.9	14.6	85.7	79.9	645	7.5
	6600	76	7.9	14.6	115.1	79.2	780	6.8
	7200	84	10.5	14.5	151	78.3	928	6.1
	7800	93	13.6	14.4	194.3	77.4	1089	5.6
8223	100	16.3	14.3	231.8	76.3	1211	5.2	

18.5V Motor @ Optimum Efficiency 优化效率点



- 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)
18.5V (5S LIPO)	8x5E							
	2700	21	0.2	18.5	3	58.1	50	16.7
	3600	28	0.3	18.5	6	69.4	89	15
	4500	35	0.6	18.5	10.6	76.1	139	13.1
	5400	42	0.9	18.5	17.4	80	201	11.5
	6300	49	1.5	18.5	26.9	82.4	273	10.2
	7200	57	2.1	18.4	39.5	83.7	357	9
	8100	65	3	18.4	55.7	84.5	452	8.1
	9000	72	4.1	18.4	76.1	84.9	558	7.3
	9900	80	5.5	18.3	101.1	85.1	675	6.7
	10800	89	7.2	18.3	131.3	85.1	803	6.1
	11700	97	9.2	18.2	167.2	84.9	943	5.6
	12018	100	10.1	18.2	183.2	84.2	995	5.4
	9x6E							
	2400	19	0.2	18.5	3.6	66.1	68	19
	3200	25	0.4	18.5	7.4	75.1	121	16.2
	4000	32	0.7	18.5	13.7	79.7	188	13.8
	4800	39	1.2	18.5	23	82	271	11.8
	5600	46	2	18.4	36	83.1	369	10.3
	6400	53	2.9	18.4	53.5	83.5	482	9
	7200	61	4.2	18.4	76.2	83.5	610	8
	8000	68	5.8	18.3	104.9	83.2	753	7.2
	8800	76	7.7	18.2	140.3	82.8	911	6.5
	9600	85	10.2	18.1	183.4	82.2	1085	5.9
	10400	93	13.1	18	235	81.6	1273	5.4
	10964	100	15.7	17.9	280.4	80.5	1415	5