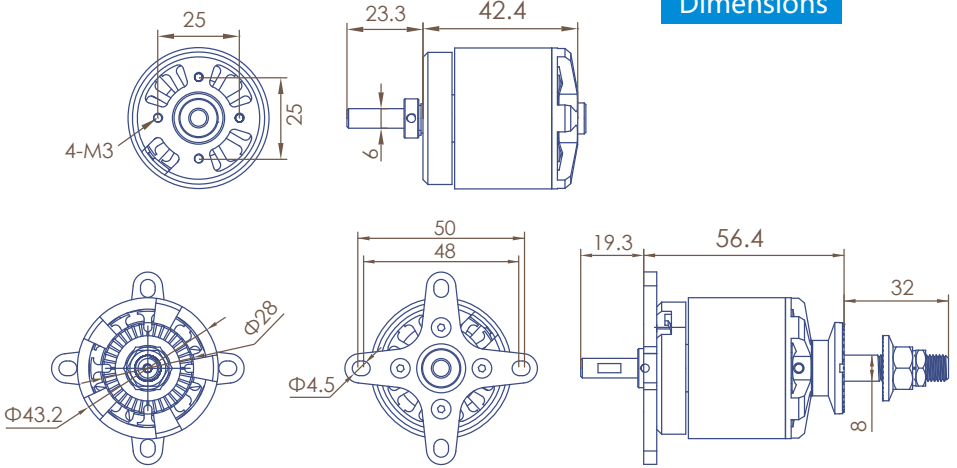




Dimensions

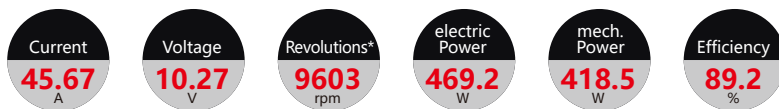


## Specification

ECO-C Series	ECO 3520C			
SKU(商品编码)	51669	51670	51671	51672
KV(KV值)	1020	820	680	510
Turns(匝数)	4	5	6	8
Weight(g)(重量)	210	210	210	210
Dimensions(D x L)[mm](尺寸)	43.2x42.4	43.2x42.4	43.2x42.4	43.2x42.4
Slots & Poles(槽数, 极数)	12N14P	12N14P	12N14P	12N14P
Ri(mOhm)(电阻)	10.8	18.7	24.0	41.6
Io @10V (A)(空载电流)	2.6	1.7	1.3	1.2
No.of Cells(LiPo)(适用电池)	3.4	3.4	3.5	5.6
Max. EfficiencyCurrent[A](效率电流)	48	40	33	29
Max. Burst Current (15S)[A](最大电流)	80	65	55	48
Max. Power(15S)[W](最大功率)	960	1040	1100	1150
Max. Torque [N*M](最大扭矩)	0.90	0.91	0.93	1.08
Shaft diameter(mm)(轴径)	6	6	6	6
Mountingholes pitch(安装孔距)	25/25	25/25	25/25	25/25
Input Connectors(输入链接)	GC4.0	GC4.0	GC4.0	GC4.0
RecommendedESC(调速器)	XC8018BA	XC-65-LITE or XC6018BA		
Propeller(螺旋桨)	3S: 14x7E, 13x6.5E 4S: 11x5.5E, 10x5E	4S: 13x8E, 14x7E, 15x6E	4S: 15x10E, 15x8E 5S: 14x5E, 14x7E	5S: 15x8E, 15x6E 6S: 14x6E, 14x7E
Class(适用机种)	.50 4-stroke .32-.40 (40E) 2-stroke			

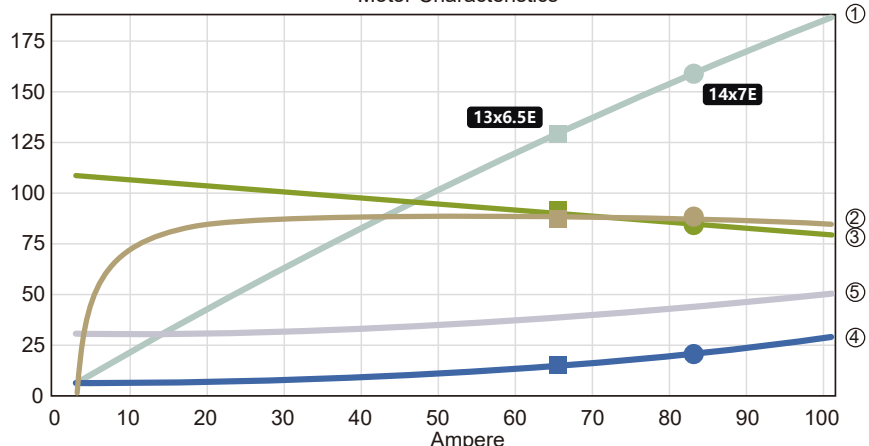
# ECO 3520C (1020KV)

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



- ① el. Power [in 5W]
- 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>13x6.5E</b>							
	3000	29	2.6	11.1	28.1	77.3	346	12.3
	3600	35	4.2	11	45.9	81.7	498	10.9
	4200	41	6.4	11	70.5	84.5	678	9.6
	4800	47	9.5	10.9	103	86.3	885	8.6
	5400	53	13.4	10.9	144.8	87.4	1120	7.7
	6000	60	18.4	10.8	197.2	88	1383	7
	6600	67	24.6	10.7	261.3	88.4	1674	6.4
	7200	75	32.3	10.6	338.4	88.6	1992	5.9
	7800	83	41.7	10.4	430.1	88.7	2338	5.4
	8400	91	53.1	10.2	537.5	88.6	2711	5
	8972	100	66.6	10	658.6	88.3	3093	4.7
	<b>14x7E</b>							
	3000	29	3.5	11	38.7	81.3	465	12
	3600	35	5.9	11	64.3	84.4	670	10.4
	4200	42	9.2	10.9	100.1	86.1	912	9.1
	4800	48	13.7	10.9	147.8	87.1	1191	8.1
	5400	55	19.6	10.8	209.4	87.6	1507	7.2
	6000	63	27.2	10.7	286.7	87.7	1861	6.5
	6600	71	36.8	10.5	381.9	87.6	2251	5.9
7200	79	48.9	10.3	496.9	87.4	2679	5.4	
7800	89	63.9	10	633.9	87.2	3144	5	
8400	99	82.8	9.7	795	86.8	3647	4.6	
8432	100	84.4	9.7	808.2	86.6	3675	4.5	

# 14.8V Motor @ Optimum Efficiency 最佳效率点

Current  
**59.44**  
A

Voltage  
**13.4**  
V

Revolutions\*  
**12524**  
rpm

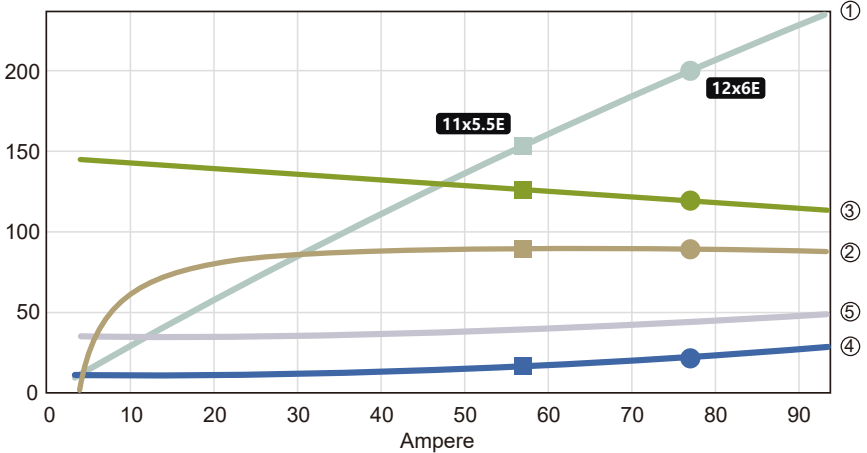
electric Power  
**796.4**  
W

mech. Power  
**711.7**  
W

Efficiency  
**89.4**  
%

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

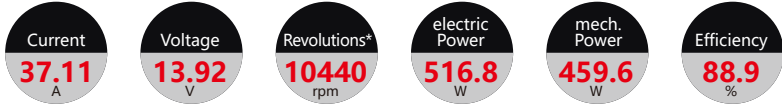
Motor Characteristics



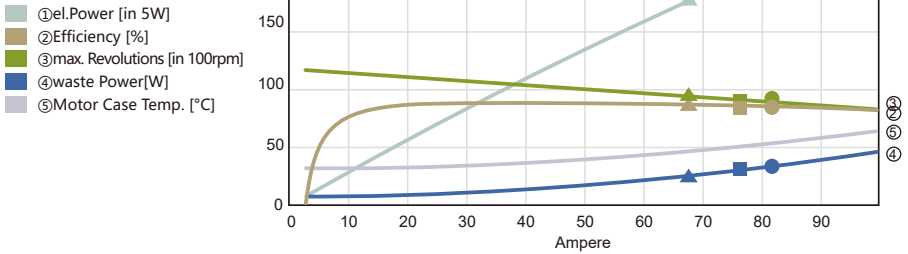
Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Volage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
14.8V (4S LIPO)	<b>11x5.5E</b>							
	3600	25	1.6	14.8	23.3	69.7	255	10.9
	4500	32	2.8	14.7	41.2	77.1	399	9.7
	5400	38	4.6	14.7	67.2	81.7	574	8.5
	6300	45	7.1	14.6	103.1	84.6	782	7.6
	7200	52	10.4	14.6	150.5	86.4	1021	6.8
	8100	59	14.7	14.5	211.3	87.7	1292	6.1
	9000	66	20.1	14.4	287.2	88.5	1595	5.6
	9900	74	26.9	14.2	379.9	89	1931	5.1
	10800	82	35.2	14	491.4	89.4	2298	4.7
	11700	91	45.5	13.8	623.4	89.6	2696	4.3
	12582	100	57.8	13.5	776.9	89.4	3118	4
	<b>12x6E</b>							
	3600	25	2.2	14.8	32.6	77	362	11.1
	4500	32	4.1	14.7	59.5	82.5	565	9.5
	5400	39	6.8	14.7	99.1	85.6	813	8.2
	6300	46	10.6	14.6	154.1	87.4	1107	7.2
	7200	53	15.8	14.5	227.3	88.4	1446	6.4
	8100	61	22.6	14.3	321.6	89	1830	5.7
	9000	69	31.4	14.1	439.7	89.3	2260	5.1
9900	78	42.5	13.9	584.6	89.4	2734	4.7	
10800	87	56.5	13.6	759.4	89.3	3254	4.3	
11700	98	74.1	13.2	967	89.2	3819	3.9	
11858	100	78.1	13.1	1012.4	88.9	3923	3.9	

# ECO 3520C (820KV)

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



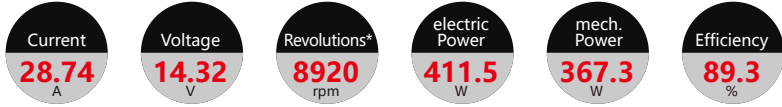
Motor Characteristics



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Volage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
14.8V (4S LIPO)	<b>13x8E</b>							
	3500	32	3.5	14.7	50.7	83.6	579	11.4
	4200	38	5.8	14.7	85.3	85.9	834	9.8
	4900	45	9.2	14.6	133.6	87.1	1135	8.5
	5600	53	13.8	14.5	198.3	87.6	1483	7.5
	6300	60	19.7	14.4	281.9	87.7	1877	6.7
	7000	69	27.5	14.2	387.2	87.6	2317	6
	7700	77	37.2	14	516.9	87.4	2804	5.4
	8400	87	49.5	13.7	673.9	87	3337	5
	9100	97	64.9	13.4	861.1	86.6	3916	4.5
	9270	100	69.7	13.3	917.1	86.2	4064	4.4
	<b>14x7E</b>							
	3600	33	4.4	14.7	64	84.8	670	10.5
	4200	39	6.9	14.6	100	86.3	912	9.1
	4800	45	10.2	14.6	148	87	1191	8
	5400	51	14.6	14.5	210.1	87.2	1507	7.2
	6000	58	20.2	14.4	288.3	87.2	1861	6.5
	6600	65	27.3	14.2	384.5	87	2251	5.9
	7200	73	36.1	14	501	86.7	2679	5.3
	7800	81	46.9	13.8	639.9	86.3	3144	4.9
	8400	90	60.2	13.5	803.5	85.9	3647	4.5
	9000	100	76.5	13.1	994.1	85.4	4186	4.2
	9003	100	77.2	13.1	1001.4	85.1	4189	4.2
	<b>15x6E</b>							
	3600	33	4.9	14.7	72	85.2	706	9.8
	4200	39	7.8	14.6	112.9	86.3	961	8.5
	4800	46	11.6	14.5	167.6	86.8	1255	7.5
	5400	52	16.6	14.4	238.4	86.9	1589	6.7
	6000	59	23.1	14.3	327.7	86.7	1962	6
	6600	67	31.3	14.1	437.8	86.4	2373	5.4
	7200	74	41.5	13.9	571.3	85.9	2825	4.9
	7800	83	54.2	13.6	730.7	85.4	3315	4.5
	8400	93	70	13.3	918.6	84.8	3845	4.2
8794	100	83	13	1065.7	84.2	4214	4	

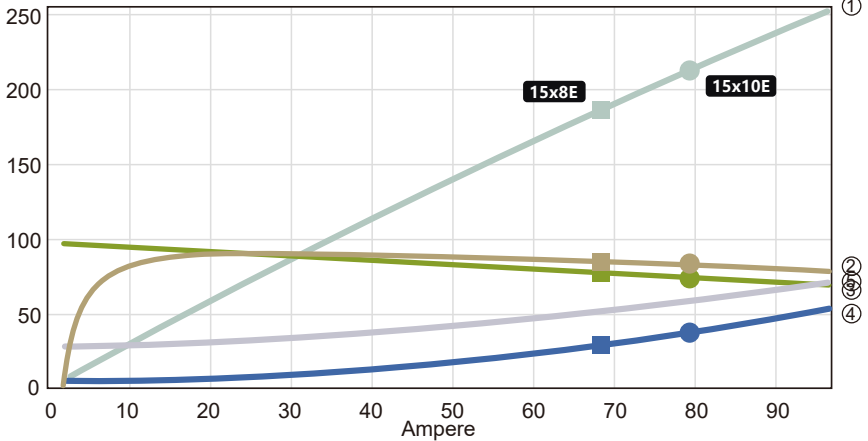
# ECO 3520C (680KV)

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



- ① el. Power [in 5W]
- 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>15x8E</b>							
	3000	33	3.8	14.7	55.8	84.8	654	11.7
	3500	39	6	14.7	87.3	86.1	890	10.2
	4000	45	8.9	14.7	129.5	86.7	1162	9
	4500	52	12.7	14.6	184	86.8	1471	8
	5000	58	17.5	14.5	252.7	86.7	1816	7.2
	5500	65	23.5	14.4	337.5	86.4	2198	6.5
	6000	72	30.9	14.3	440.1	86	2615	5.9
	6500	80	39.9	14.2	562.7	85.6	3069	5.5
	7000	88	50.8	14	707.2	85	3560	5
	7500	96	63.8	13.8	875.6	84.5	4087	4.7
	7705	100	70.2	13.7	956.5	84	4313	4.5
	<b>15x10E</b>							
	2500	28	2.8	14.8	41	83.4	568	13.8
	3000	34	4.7	14.7	69.5	85.2	817	11.8
	3500	40	7.5	14.7	109.4	85.9	1112	10.2
4000	46	11.2	14.6	163.1	86	1453	8.9	
4500	53	16.1	14.6	232.8	85.8	1839	7.9	
5000	60	22.3	14.5	320.9	85.4	2270	7.1	
5500	67	30.2	14.3	429.8	84.8	2747	6.4	
6000	75	39.9	14.2	562.3	84.2	3269	5.8	
6500	83	51.9	14	720.8	83.5	3837	5.3	
7000	92	66.5	13.8	908.1	82.8	4450	4.9	
7398	100	80.7	13.6	1084.9	82	4970	4.6	

# 18.5V Motor @ Optimum Efficiency 最佳效率点

Current  
**35.66**  
A

Voltage  
**17.77**  
V

Revolutions\*  
**11069**  
rpm

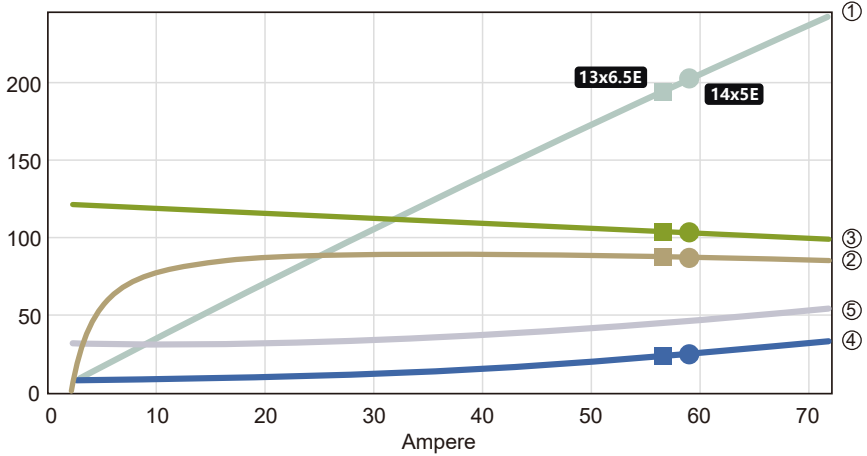
electric Power  
**633.6**  
W

mech. Power  
**566.1**  
W

Efficiency  
**89.4**  
%

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

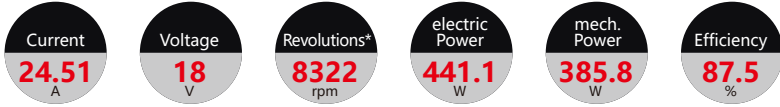
Motor Characteristics



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Volage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
18.5V (5S LIPO)	<b>13x6.5E</b>							
	3500	30	2.3	18.5	41.8	82.4	471	11.3
	4200	36	3.8	18.4	69.7	85.5	678	9.7
	4900	43	5.9	18.4	108.4	87.2	923	8.5
	5600	49	8.8	18.3	160	88.2	1205	7.5
	6300	56	12.4	18.3	226.5	88.7	1525	6.7
	7000	63	17.1	18.2	309.9	88.9	1883	6.1
	7700	70	22.9	18.1	412.4	89	2278	5.5
	8400	77	30	17.9	536.1	88.9	2711	5.1
	9100	85	38.6	17.8	683.1	88.7	3182	4.7
	9800	93	49	17.6	855.8	88.4	3690	4.3
	10339	100	58.6	17.4	1013.3	87.9	4108	4.1
	<b>14x5E</b>							
	2800	24	1.3	18.5	23.6	77.5	289	12.3
	3500	30	2.3	18.5	43.1	82.7	452	10.5
	4200	36	3.9	18.4	71.9	85.7	651	9.1
	4900	43	6.1	18.4	112	87.3	886	7.9
	5600	49	9.1	18.3	165.5	88.2	1158	7
	6300	56	12.9	18.3	234.4	88.7	1465	6.3
	7000	63	17.7	18.2	320.9	88.9	1809	5.6
	7700	70	23.8	18	427.1	88.9	2189	5.1
	8400	78	31.2	17.9	555.4	88.7	2605	4.7
9100	86	40.1	17.7	708	88.5	3057	4.3	
9800	94	50.9	17.5	887.2	88.2	3545	4	
10293	100	60	17.4	1036.5	87.7	3911	3.8	

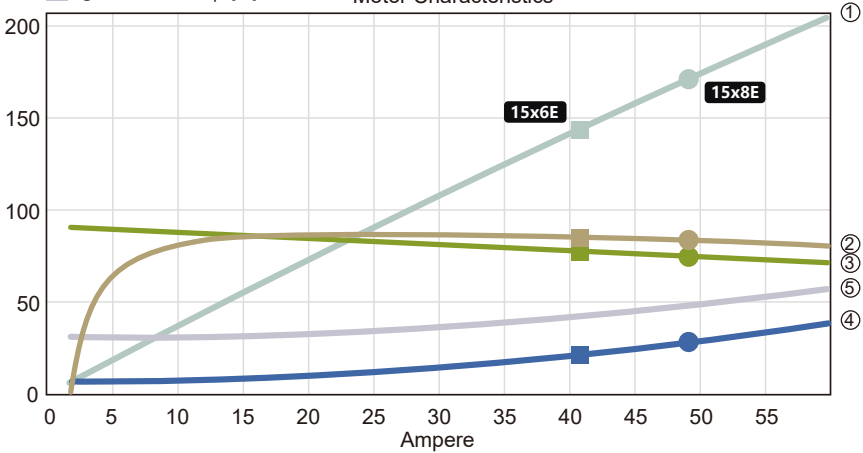
# ECO 3520C (510KV)

## 18.5V Motor @ Optimum Efficiency 最佳效率点



- ① el.Power [in 5W]
- 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)
18.5V (5S LIPO)	<b>15x6E</b>							
	3000	35	2.4	18.5	44.4	80	490	11
	3500	41	3.7	18.4	68.1	82.7	667	9.8
	4000	47	5.4	18.4	99.6	84.5	872	8.8
	4500	53	7.7	18.4	140.1	85.5	1103	7.9
	5000	60	10.5	18.3	190.8	86.1	1362	7.1
	5500	67	13.9	18.2	253.1	86.4	1648	6.5
	6000	74	18.1	18.2	328.2	86.5	1962	6
	6500	81	23.2	18.1	417.5	86.5	2302	5.5
	7000	88	29.2	17.9	522.4	86.3	2670	5.1
	7500	96	36.3	17.8	644.3	86.1	3065	4.8
	7769	100	40.8	17.7	721.2	85.7	3289	4.6
	<b>15x8E</b>							
	2500	29	1.9	18.5	34.8	78.7	454	13
	3000	35	3.1	18.4	57.7	82	654	11.3
	3500	42	4.9	18.4	89.6	83.9	890	9.9
	4000	48	7.2	18.4	132.1	85	1162	8.8
4500	55	10.2	18.3	186.9	85.5	1471	7.9	
5000	62	14.1	18.2	256	85.6	1816	7.1	
5500	69	18.9	18.1	341	85.5	2198	6.4	
6000	76	24.7	18	444	85.3	2615	5.9	
6500	84	31.8	17.9	566.8	84.9	3069	5.4	
7000	92	40.3	17.7	711.4	84.5	3560	5	
7463	100	49.9	17.6	871.5	83.8	4046	4.6	

## 22.2V Motor @ Optimum Efficiency 最佳效率点

Current  
**29.16**  
A

Voltage  
**21.49**  
V

Revolutions\*  
**9940**  
rpm

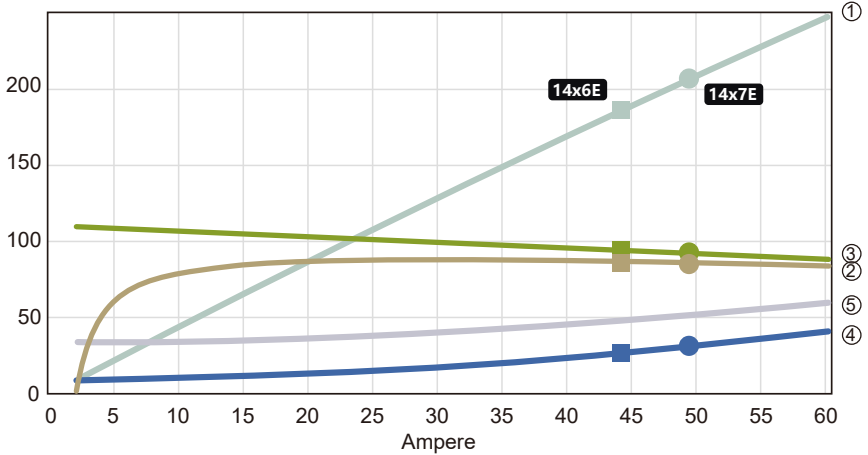
electric Power  
**626.6**  
W

mech. Power  
**548.8**  
W

Efficiency  
**87.6**  
%

- ① el. Power [in 5W]
- 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)
22.2V (6S LIPO)	<b>14x6E</b>							
	2800	27	1.3	22.2	29.2	75	347	11.9
	3500	34	2.4	22.1	53.1	80.6	543	10.2
	4200	41	4	22.1	88.2	83.8	781	8.9
	4900	48	6.2	22.1	137.2	85.6	1064	7.8
	5600	55	9.2	22	202.5	86.6	1389	6.9
	6300	63	13.1	21.9	286.6	87.1	1758	6.1
	7000	71	18.1	21.8	392.4	87.2	2171	5.5
	7700	79	24.2	21.6	522.4	87.2	2627	5
	8400	87	31.7	21.5	679.5	87	3126	4.6
	9100	96	40.9	21.3	866.6	86.8	3668	4.2
	9368	100	45.2	21.2	952.9	86.3	3888	4.1
	<b>14x7E</b>							
	2100	20	0.7	22.2	15.9	67.8	228	14.3
	2800	27	1.5	22.2	33.2	77	405	12.2
	3500	34	2.8	22.1	60.9	81.9	633	10.4
	4200	41	4.6	22.1	102	84.5	912	8.9
	4900	48	7.2	22	159.4	85.9	1241	7.8
	5600	56	10.8	22	236	86.6	1621	6.9
	6300	64	15.4	21.8	335.1	86.9	2051	6.1
7000	72	21.2	21.7	459.9	86.8	2532	5.5	
7700	80	28.6	21.5	613.5	86.6	3064	5	
8400	89	37.6	21.3	799.5	86.3	3647	4.6	
9100	99	48.6	21.1	1021.3	85.9	4280	4.2	
9181	100	50.4	21.1	1056.7	85.5	4356	4.1	