

2-Stroke Glow to Electric Conversion Guide

This conversion guide will help direct the user to the correct size Electric Motor, Speed Controller, Battery and Prop needed to emulate the performance of a 2-Stroke glow engine, when used in a Sport Flying type Model aircraft. This guide uses the recognized standard of 1 Cubic Inch of 2-Stroke glow engine power being equal to 2000 Watts of electric power. While there are many different power system combinations that will work, the ones shown in this guide will use props that are similar in size to their glow counterparts for prop clearance considerations.

.020 Glow Engine Power - 40 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-2203/28 - 2800Kv						Motor					
ESC Cobra 11 Amp Speed Controller						ESC					
Battery BadAss 2-Cell, 7.4 V, 450mah 45C						Battery					
Prop HQ 5x3 Carbon Composition						Prop					
No BadAss Motors are available at this power level											
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
5.59	41	17,123	48.6	243	8.59						
Click Here for the C-2203/28 Prop Data Chart											

.049-.051 Glow Engine Power - 100 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-2204/32 - 1960 Kv						Motor BadAss BA-2305-1960Kv					
ESC Cobra 22 Amp Speed Controller						ESC BadAss Rebel 25 Amp ESC					
Battery BadAss 3-cell, 11.1 V, 850mah 45C						Battery BadAss 3-Cell, 11.1 V, 1000mah, 45C					
Prop APC 6x4 Speed 400 Series						Prop APC 5x4.6 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
11.67	130	15,106	57.2	484	17.07	14.28	159	17,465	76.1	541	19.09
Click Here for the C-2204/32 Prop Data Chart						Click Here for the BA-2305-1960 Prop Data Chart					

.09 -.10 Glow Engine Power - 200 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-2213/12 - 2000Kv						Motor BadAss BA-2310-1680Kv					
ESC Cobra 33 Amp Speed Controller						ESC BadAss Rebel 35 Amp ESC					
Battery BadAss 3-cell, 11.1 V, 1500mah 45C						Battery BadAss 3-cell, 11.1 V, 1500mah 45C					
Prop APC 6x4 Speed 400 Series						Prop APC 7x4 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
18.48	205	18,060	68.4	697	24.59	23.03	256	15,247	57.8	1001	35.31
Click Here for the C-2213/12 Prop Data Chart						Click Here for the BA-2310-1680 Prop Data Chart					

.15 Glow Engine Power - 300 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-2217/12 - 1550 Kv						Motor BadAss BA-2315-1480Kv					
ESC Cobra 33 Amp Speed Controller						ESC BadAss Rebel 45 Amp ESC					
Battery BadAss 3-Cell, 11.1 V, 2200mah 45C						Battery BadAss 3-Cell, 11.1 V, 2200mah 45C					
Prop APC 8x6 E-Series						Prop APC 8x6 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
31.72	352	11,440	65	1167	41.16	34.06	378	12,153	69.1	1211	42.71
Click Here for the C-2217/12 Prop Data Chart						Click Here for the BA-2315-1480 Prop Data Chart					

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.20 Glow Engine Power - 400 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-2814/12 - 1390 Kv						Motor BadAss BA-2814-1300Kv					
ESC Cobra 40 Amp Speed Controller						ESC BadAss Rebel 65 Amp ESC					
Battery BadAss 3-Cell, 11.1 V, 2600mah 45C						Battery BadAss 3-Cell, 11.1 V, 3300mah 45C					
Prop APC 9x6 E-Series						Prop APC 9x6 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
33.09	367	11,528	65.5	1427	50.34	36.01	400	11,958	67.9	1540	54.31
Click Here for the C-2814/12 Prop Data Chart						Click Here for the BA-2814-1300 Prop Data Chart					

.25 Glow Engine Power - 500 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-2820/8 - 1450Kv						Motor BadAss BA-2814-1560Kv					
ESC Cobra 60 Amp Speed Controller						ESC BadAss Rebel 65 Amp ESC					
Battery BadAss 3-Cell, 11.1 V, 4000mah 45C						Battery BadAss 3-Cell, 11.1 V, 4000mah 45C					
Prop APC 9x6 E-Series						Prop APC 9x6 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
48.2	535	12,847	73	1775	62.61	50.98	566	13,083	74.3	1808	63.76
Click Here for the C-2820/8 Prop Data Chart						Click Here for the BA-2814-1560 Prop Data Chart					

.30 Glow Engine Power - 600 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-3515/12, 1100 Kv						Motor BadAss BA-2820-910Kv					
ESC Cobra 60 Amp Speed Controller						ESC BadAss Rebel 65 Amp ESC					
Battery BadAss 4-Cell, 14.8 V, 4000mah 45C						Battery BadAss 4-Cell, 14.8 V, 4000mah 45C					
Prop APC 10x5 E-Series						Prop APC 10x8 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
43.04	637	12,395	58.7	2200	77.6	41.12	609	10,599	80.3	2021	71.3
Click Here for the C-3515/12 Prop Data Chart						Click Here for the BA-2820-910 Prop Data Chart					

.35 Glow Engine Power - 700 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-2826/8, 1130Kv						Motor BadAss BA-2820-1080Kv					
ESC Cobra 60 Amp Speed Controller						ESC BadAss Rebel 65 Amp ESC					
Battery BadAss 4-Cell, 14.8 V, 4000mah 45C						Battery BadAss 4-Cell, 14.8 V, 4000mah 45C					
Prop APC 10x5 E-Series						Prop APC 10x5 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
48.48	718	12,829	60.7	2373	83.7	49.06	726	13,220	62.6	2453	86.5
Click Here for the C-2826/6 Prop Data Chart						Click Here for the BA-2820-1080 Prop Data Chart					

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.40 Glow Engine Power - 800 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-3520/10, 980 Kv						Motor BadAss BA-2826-1030Kv					
ESC Cobra 60 Amp Speed Controller						ESC BadAss Rebel 85 Amp ESC					
Battery BadAss 4-Cell, 14.8 V, 5000mah 45C						Battery BadAss 4-Cell, 14.8 V, 5000mah 45C					
Prop APC 11x7 E-Series						Prop APC 10x7 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
52.4	776	10,420	69.1	2741	96.7	58.36	864	12,413	82.3	2594	91.5
Click Here for the C-3520/10 Prop Data Chart						Click Here for the BA-2826-1030 Prop Data Chart					

.45 Glow Engine Power - 900 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-3520/12, 820Kv						Motor BadAss BA-3520-970Kv					
ESC Cobra 60 Amp Speed Controller						ESC BadAss Rebel 85 Amp ESC					
Battery BadAss 5-Cell, 18.5 V, 4000mah 45C						Battery BadAss 4-Cell, 14.8 V, 5000mah 45C					
Prop APC 11x7 E-Series						Prop APC 10x8 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
50.98	943	11,096	73.6	3119	110.1	62.72	928	11,955	90.6	2507	88.4
Click Here for the C-3520/12 Prop Data Chart						Click Here for the BA-3520-970 Prop Data Chart					

.50 Glow Engine Power - 1000 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-3525/10, 780Kv						Motor BadAss BA-3520-790Kv					
ESC Cobra 80 Amp Speed Controller						ESC BadAss Rebel 85 Amp ESC					
Battery BadAss 5-Cell, 18.5 V, 5000mah 45C						Battery BadAss 5-Cell, 18.5 V, 5000mah 45C					
Prop APC 12x6 E-Series						Prop APC 11x5.5 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
54.61	1010	10,789	61.3	3694	130.3	52.57	973	12,266	63.9	3328	117.4
Click Here for the C-3525/10 Prop Data Chart						Click Here for the BA-3520-790 Prop Data Chart					

.55 Glow Engine Power - 1100 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-4120/14, 710 Kv						Motor BadAss BA-3520-790Kv					
ESC Cobra 80 Amp Speed Controller						ESC BadAss Rebel 85 Amp ESC					
Battery BadAss 5-Cell, 18.5 V, 5000mah 45C						Battery BadAss 5-Cell, 18.5 V, 5000mah 45C					
Prop APC 12x8 E-Series						Prop APC 11x7 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
62.9	1164	10,385	78.7	3316	116.7	62.6	1158	11,867	78.7	3378	119.1
Click Here for the C-4120/14 Prop Data Chart						Click Here for the BA-3520-790 Prop Data Chart					

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.60 Glow Engine Power - 1200 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-4120/16, 610Kv						Motor BadAss BA-3520-650Kv					
ESC Cobra 80 Amp Speed Controller						ESC BadAss Rebel 85 Amp ESC					
Battery BadAss 6-Cell, 22.2 V, 5000mah 45C						Battery BadAss 6-Cell, 22.2 V, 5000mah 45C					
Prop APC 12x8 E-Series						Prop APC 11x7 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
60.37	1340	10,837	82.1	3588	126.6	59.58	1323	12,355	81.9	3742	132
Click Here for the C-4120/16 Prop Data Chart						Click Here for the BA-3520-650 Prop Data Chart					

.75 Glow Engine Power - 1500 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-4130/12, 540 Kv						Motor BadAss BA-3530-570Kv					
ESC Cobra 80 Amp Speed Controller						ESC BadAss Rebel 85 Amp ESC					
Battery BadAss 6-Cell, 22.2 V, 5000mah 45C						Battery BadAss 6-Cell, 22.2 V, 5000mah 45C					
Prop APC 14x7 E-Series						Prop APC 13x8 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
63.86	1418	9,337	61.9	4692	165.5	62.7	1392	10,064	76.2	4338	153
Click Here for the C-4130/12 Prop Data Chart						Click Here for the BA-3530-570 Prop Data Chart					

.90 Glow Engine Power - 1800 Watts											
Cobra Power System						BadAss Power System					
Motor Cobra C-4130/14, 450Kv						Motor BadAss BA-3530-700Kv					
ESC Cobra 80 Amp 12S Speed Controller						ESC BadAss Renegade 125 Amp ESC					
Battery 2 x BadAss 4-Cell, 14.8 V, 5000mah 45C						Battery BadAss 6-Cell, 22.2 V, 5000mah 45C					
Prop APC 13x8 E-Series						Prop APC 13x5.5 E-Series					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
56.18	1663	10,511	79.6	4852	171.2	85.57	1899	12,785	66.6	5761	203.2
Click Here for the C-4130/14 Prop Data Chart						Click Here for the BA-3530-700 Prop Data Chart					

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1.20 Glow Engine Power - 2400 Watts											
Cobra Power System Motor Cobra C-5320/18, 370Kv ESC Cobra 80 Amp 12S Speed Controller Battery 2 x BadAss 4-cell, 14.8 V, 5000mah 45C Prop APC 16x7 E-Series						BadAss Power System Motor ESC Battery Coming Soon! Prop					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
61.46	1820	9,007	60.0	6462	228						
Click Here for C-5320/18 Prop Data Chart						Click Here for Complete Prop Data Chart					

1.50 Glow Engine Power - 3000 Watts											
Cobra Power System Motor Cobra C-5330/18, 250Kv ESC Cobra 80 Amp 12S Speed Controller Battery 2 x BadAss 5-Cell, 18.5 V, 5000mah 45C Prop APC 18x10 E-Series						BadAss Power System Motor ESC Battery Coming Soon! Prop					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
60.51	2239	7,737	72.7	7737	273						
Click Here for C-5330/18 Prop Data Chart						Click Here for Complete Prop Data Chart					

1.80 Glow Engine Power - 3600 Watts											
Cobra Power System Motor Cobra C-5340/16, 200Kv ESC Cobra 80 Amp 12S Speed Controller Battery 2 x BadAss 6-Cell, 22.2 V, 5000mah 45C Prop APC 18x10 E-Series						BadAss Power System Motor ESC Battery Coming Soon! Prop					
Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces	Current Amps	Power Watts	Motor RPM	Speed in MPH	Thrust Grams	Thrust Ounces
57.52	2554	8,007	75.8	8658	305						
Click Here for C-5340/16 Prop Data Chart						Click Here for Complete Prop Data Chart					