



DIVERSITY MODEL AIRCRAFT

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This calculator will be given regular updates. Please e-mail us with any comments you may have. Thank you.

<p>- Motor Selection -</p> <p>Motor: Astro Cobalt 60 13T#24 #6</p> <p>Kv (rpm/volt): 293</p> <p>Kt (InOz/amp): 4.6143344</p> <p>Resistance: 0.15</p> <p>Current: 2 A</p> <p>Weight: 22</p>	<p>- Prop Selection -</p> <p>Gear Ratio: 1</p> <p>Prop Diameter: 11</p> <p>Prop Pitch: 14</p> <p>Prop Blades: 2</p> <p>Prop Type: APC</p> <p>Prop Const: 1.11</p>	<p>- Battery Selection -</p> <p>Cell Type: A123 M1</p> <p># Cells: 12</p> <p># Parallel: 1</p> <p>Cell Capacity: 2300 mAh</p> <p>Cell Weight : 2.5 oz</p> <p>Volts: 3.3 V</p> <p>Cell Resistance: 0.0010 ohms</p>																												
<p>- Speed Controller -</p> <p>Controller: Castle Creations Phoenix 80</p> <p>Resistance: 0.0010</p> <p>Weight: 2.1 oz</p> <p>Continuous Amps: 60</p>																														
<p>Results:</p> <table border="1"> <tr> <td>Motor Amps:</td> <td>Watts In :</td> <td>Watts Out:</td> <td>Efficiency:</td> <td>V to motor:</td> <td>Motor RPM:</td> <td>Prop RPM:</td> </tr> <tr> <td>29.77</td> <td>1167.37</td> <td>956.01</td> <td>81.9 %</td> <td>39.21</td> <td>10181.01</td> <td>10181</td> </tr> <tr> <td>Max Efficiency:</td> <td>Current @ M.E.:</td> <td>Watts In @ M.E.:</td> <td>Watts Out @ M.E.:</td> <td>V to motor @ M.E.:</td> <td>Prop Pitchespeed:</td> <td>Prop Static Thrust oz:</td> </tr> <tr> <td>82.6 %</td> <td>22.93</td> <td>904.26</td> <td>746.52</td> <td>39.43555</td> <td>135 mph</td> <td>189.1</td> </tr> </table> <p>Pack Weight : 30 oz Batteries + Motor + 10% = 53.56</p> <p>Full-throttle duration: 4:38 minutes</p>			Motor Amps:	Watts In :	Watts Out:	Efficiency:	V to motor:	Motor RPM:	Prop RPM:	29.77	1167.37	956.01	81.9 %	39.21	10181.01	10181	Max Efficiency:	Current @ M.E.:	Watts In @ M.E.:	Watts Out @ M.E.:	V to motor @ M.E.:	Prop Pitchespeed:	Prop Static Thrust oz:	82.6 %	22.93	904.26	746.52	39.43555	135 mph	189.1
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<p>FlyDMA.com</p>		<p>Recalculate</p>	<p>Powered By NEG ENERGY</p>																											