

**S4A**

Member Full Version



propCalc - Propeller Calculator

Welcome H

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all data without guarantee - Accuracy: +/-10%

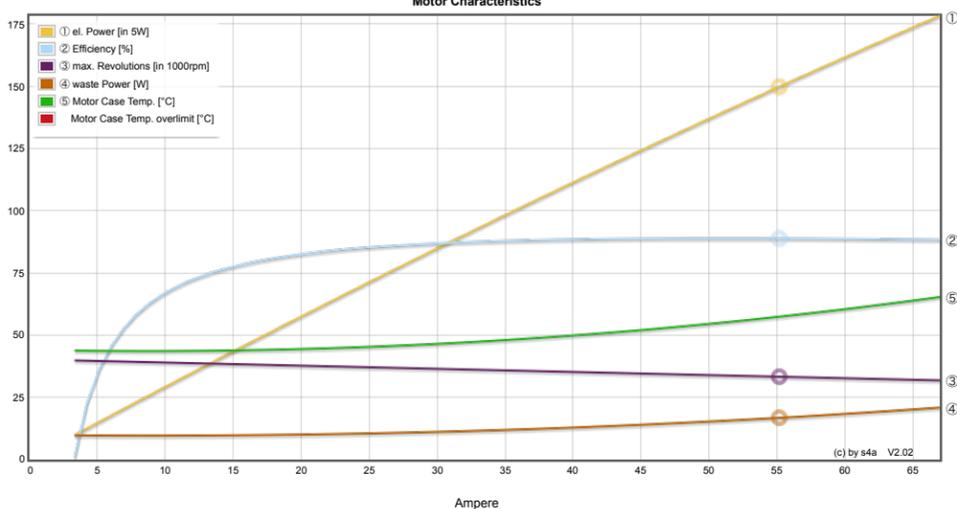
<b>General</b>	Motor Cooling: <span>medium</span>	Model Weight: <span>1450 g</span> <span>51.1 oz</span>	<span>incl. Drive</span>	Field Elevation: <span>500 m ASL</span> <span>1640 ft ASL</span>	Air Temperature: <span>25 °C</span> <span>77 °F</span>	Pressure (QNH): <span>1013 hPa</span> <span>29.91 inHg</span>		
<b>Battery Cell</b>	Type (Cont. / max. C) - charge state: <span>LiPo 3300mAh - 30/45C</span> <span>normal</span>	Configuration: <span>4 S 1 P</span>	Cell Capacity: <span>3300 mAh</span>	Total Capacity: <span>3300 mAh</span>	Resistance: <span>0.0052 Ohm</span>	Voltage: <span>3.7 V</span>	C-Rate: <span>30 C cont.</span> <span>45 C max</span>	Weight: <span>93 g</span> <span>3.3 oz</span>
<b>Controller</b>	Type: <span>max 150A</span>	cont. Current: <span>150 A</span>	max. Current: <span>150 A</span>	Resistance: <span>0.0015 Ohm</span>				Weight: <span>200 g</span> <span>7.1 oz</span>
<b>Motor</b>	Manufacturer - Type (Kv): <span>Typhoon (HET)</span> <span>EDF-2W-25 (2720)</span>	KV (w/o torque): <span>2720 rpm/V</span>	no-load Current: <span>2.2 A @ 10 V</span>	Limit (up to 15s): <span>70 A</span>	Resistance: <span>0.016 Ohm</span>	Case Length: <span>48 mm</span> <span>1.89 inch</span>	# mag. Poles: <span>6</span>	Weight: <span>110 g</span> <span>3.9 oz</span>
<b>Propeller</b>	Type - yoke twist: <span>Aeronaut CamCarbon</span> <span>0°</span>	Diameter: <span>14.5 inch</span>	Pitch: <span>14 inch</span>	# Blades: <span>2</span>	PConst: <span>1.06</span>	Gear Ratio: <span>5.2 : 1</span>		<input type="button" value="calculate"/>

**Remarks:**

- The airflow at the propeller blade will stall. Therefore the static thrust and max. current may not be reached. On ground you will measure "Stall Thrust" as maximum.

Battery	Motor @ Optimum Efficiency	Motor @ Maximum	Propeller	Total Drive
Load: 16.92 C	Current: 49.81 A	Current: 55.83 A	Static Thrust: 4740 g	Drive Weight: 750 g
Voltage: 13.64 V	Voltage: 13.69 V	Voltage: 13.56 V	167.2 oz	26.5 oz
Rated Voltage: 14.80 V	Revolutions*: 33983 rpm	Revolutions*: 33225 rpm	Revolutions*: 6389 rpm	All-up Weight: 1450 g
Flight Time: 3.5 min	electric Power: 681.9 W	electric Power: 756.7 W	Stall Thrust: 1877 g	51 oz
Mixed Flight Time: 6.0 min	mech. Power: 605.7 W	mech. Power: 671.7 W	66.2 oz	Power-Weight: 570 W/kg
Weight: 372 g	Efficiency: 88.8 %	Efficiency: 88.8 %	Pitch Speed: 136 km/h	259 W/lb
13.1 oz		est. Temperature: 58 °C	84 mph	Thrust-Weight: 1.29 : 1
		136 °F	444 km/h	P(in) @ max: 826.2 W
			276 mph	P(out) @ max: 671.7 W
			specific Thrust: 2.48 g/W	Efficiency @ max: 81.3 %
			0.09 oz/W	

Motor Characteristics



**Important Note:**

Before flight recheck your max. current! If your Current, el. Power or RPM are over the manufacturers limits your motor, controller and/or battery may take damage! **Verify before flight by measurement!**

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\* The manufacturer limitation is NOT monitored  
\*\* Testdata with reduced accuracy

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