



Member Full Version

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

propCalc - Propeller Calculator

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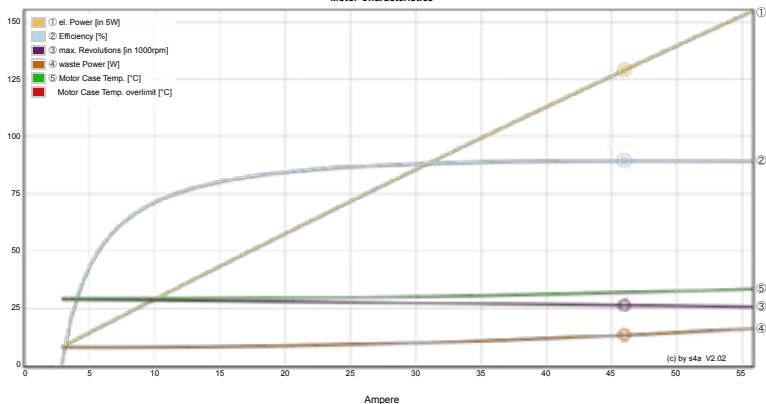
General	Motor Cooling: excellent	# of Motors: 1 (on same Battery)	Model Weight: 2450 g 86.4 oz incl. Drive	Wing Area: 50 dm² 775 in²	Field Elevation 500 m ASL 1640 ft ASL	Air Temperature 25 °C 77 °F	Pressure (QNH): 1013 hPa 29.91 inHg	
Battery Cell	Type (Cont. / max. C) - charge state: LiPo 4000mAh - 45/60C	Configuration: 4 S 1 P	Cell Capacity: 4000 mAh	Total Capacity: 4000 mAh	Resistance: 0.0031 Ohm	Voltage: 3.7 V	C-Rate: 45 C cont. 60 C max	Weight: 112 g 4 oz
Controller	Type: max 70A	cont. Current: 70 A	max. Current: 70 A	Resistance: 0.004 Ohm	Case Length: 70 mm 2.76 inch	# mag. Poles: 6	Weight: 90 g 3.2 oz	
Motor	Manufacturer - Type (Kv): HET (Typhoon) .600-32 (2050) search...	KV (w/o torque): 2050 rpm/V	no-load Current: 2 A @ 10 V	Limit (up to 15s): 70 A	Resistance: 0.016 Ohm	Flight Speed: 0 km/h 0 mph	Weight: 205 g 7.2 oz	
Propeller	Type - yoke twist: Aeronaut CamCarbon - 0°	Diameter: 14 inch	Pitch: 10 inch	# Blades: 2	PConst: 1.07	Gear Ratio: 3.7 : 1	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.
- 7.3km/h / 4.5mph - above this airspeed stall at the propeller blade will have disappeared completely.

Battery	Motor @ Optimum Efficiency	Motor @ Maximum	Propeller	Total Drive	Airplane
Load: 11.62 C	Current: 47.44 A	Current: 46.50 A	Static Thrust: 3769 g	Drive Weight: 817 g	All-up Weight: 2450 g
Voltage: 14.22 V	Voltage: 14.02 V	Voltage: 14.04 V	132.9 oz	28.8 oz	86.4 oz
Rated Voltage: 14.80 V	Revolutions*: 26373 rpm	Revolutions*: 26434 rpm	Revolutions*: 7144 rpm	Power-Weight: 281 W/kg	Wing Load: 49 g/dm²
Capacity: 4000 mAh	electric Power: 665.2 W	electric Power: 652.7 W	Stall Thrust: 2025 g	128 W/lb	16.1 oz/ft²
Energy: 59.2 Wh	mech. Power: 595.7 W	mech. Power: 584.4 W	71.4 oz	Thrust-Weight: 0.83 : 1	Cubic Wing Load: 6.9
Flight Time: 5.2 min	Efficiency: 89.5 %	Efficiency: 89.5 %	Thrust @ 0 km/h: 3769 g	P(in) @ max: 688.1 W	est. Stall Speed: 33 km/h
Mixed Flight Time: 9.4 min		est. Temperature: 32 °C	Thrust @ 0 mph: 132.9 oz	P(out) @ max: 584.4 W	20 mph
Weight: 448 g		90 °F	Pitch Speed: 109 km/h	Efficiency @ max: 84.9 %	est. Speed (level): 97 km/h
15.8 oz			68 mph		60 mph
			Tip Speed: 479 km/h		est. Speed (vertical): 36 km/h
			298 mph		22 mph
			specific Thrust: 3.10 g/W		est. rate of climb: 10.5 m/s
			0.11 oz/W		2066 fth/min

Motor Characteristics



Ampere