

S4A

Restricted Demo Version

[sign-up](#) for full version from only \$0.99Login: eMail password
☐ remember me - [Forgot password](#)

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

propCalc - Propeller Calculator

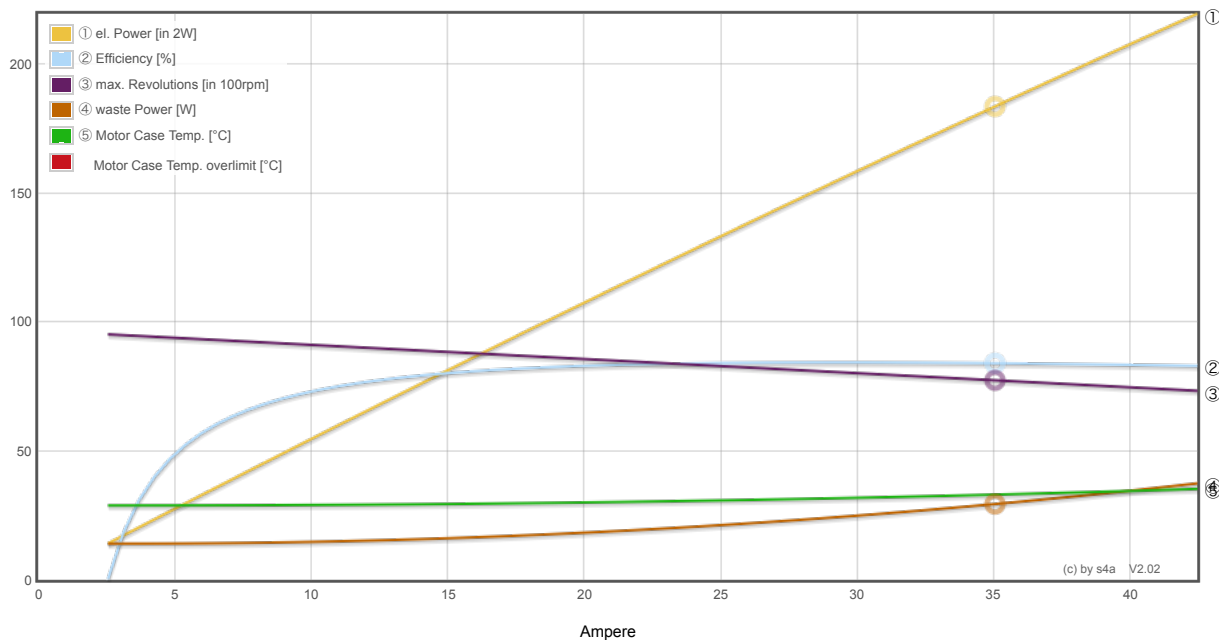
[Help](#) | [Langu](#)

General	Motor Cooling: excellent	Model Weight: 2000 g 70.5 oz	incl. Drive	Field Elevation 500 m ASL 1640 ft ASL	Air Temperature 25 °C 77 °F		
Battery Cell	Type (Cont. / max. C) - charge state: LiPo 3300mAh - 35/50C - normal	Configuration: 3 S 1 P	Cell Capacity: 3300 mAh	Total Capacity: 3300 mAh	Resistance: 0.0045 Ohm	Voltage: 3.7 V	C-Rate: 35 C cor 50 C ma
Controller	Type: max 60A	cont. Current: 60 A	max. Current: 60 A	Resistance: 0.0045 Ohm			
Motor	Manufacturer - Type (Kv): E-flite Power 25A (870) search...	KV (w/o torque): 870 rpm/V	no-load Current: 2.4 A @ 10 V	Limit (up to 15s): 44 A	Resistance: 0.03 Ohm	Case Length: 54 mm 2.13 inch	# mag. Poles: 12
Propeller	Type - yoke twist: custom - 0°	Diameter: 12 inch	Pitch: 6 inch	# Blades: 2	PConst: 1.3	Gear Ratio: 1 : 1	

Remarks:

Battery	Motor @ Optimum Efficiency	Motor @ Maximum	Propeller	Total Drive
Load:	10.72 C	Current: 28.87 A	Static Thrust:	1756 g
Voltage:	10.62 V	Voltage: 10.58 V		61.9 oz
Rated Voltage:	11.10 V	Revolutions*: 8075 rpm	Revolutions*:	7718 rpm
Flight Time:	5.6 min	electric Power: 305.4 W	Stall Thrust:	1684 g
Mixed Flight Time:	9.5 min	mech. Power: 257.4 W		59.4 oz
Weight:	276 g	Efficiency: 84.3 %	Pitch Speed:	71 km/h
	9.7 oz	est. Temperature: 33 °C		44 mph
		91 °F	Tip Speed:	443 km/h
				275 mph
			specific Thrust:	4.74 g/W
				0.17 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 measurment!**

for printing use Landscape format

* The manufacturer limitation is NOT monitored

** Testdata with reduced accuracy

(c) copyright by and intellectual property of Markus Mueller, Solution for All, www.s4a.ch, [info\[at\]ecalc.ch](mailto:info[at]ecalc.ch)

See HTML Source for full and complete copyright notice.

Version: P6.502, 05.05.14 / Data: 25.04.14 with 3667 Motors

translated to english by Markus Mueller

2465461

