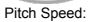
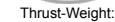
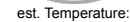
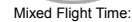


Membership Expiry: 08/01/26

[Logout \(/motorcalc.php?sitelokaction=logout\)](#) - [Profile \(calcmember/update.php\)](#)

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

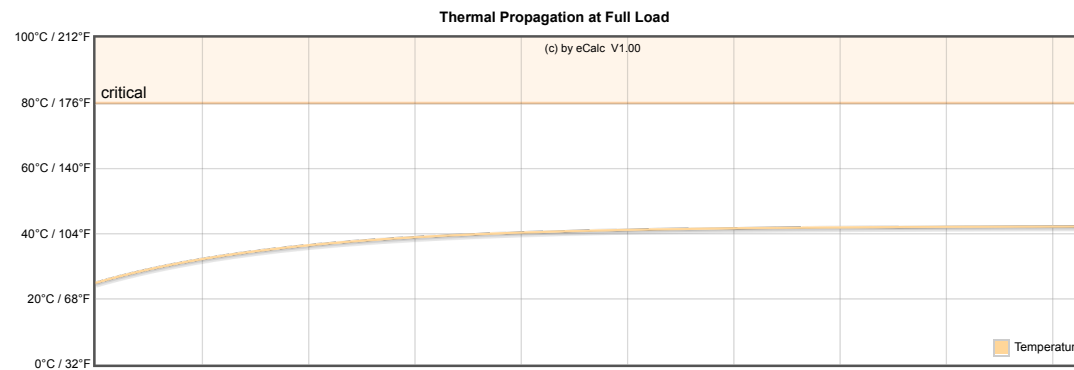
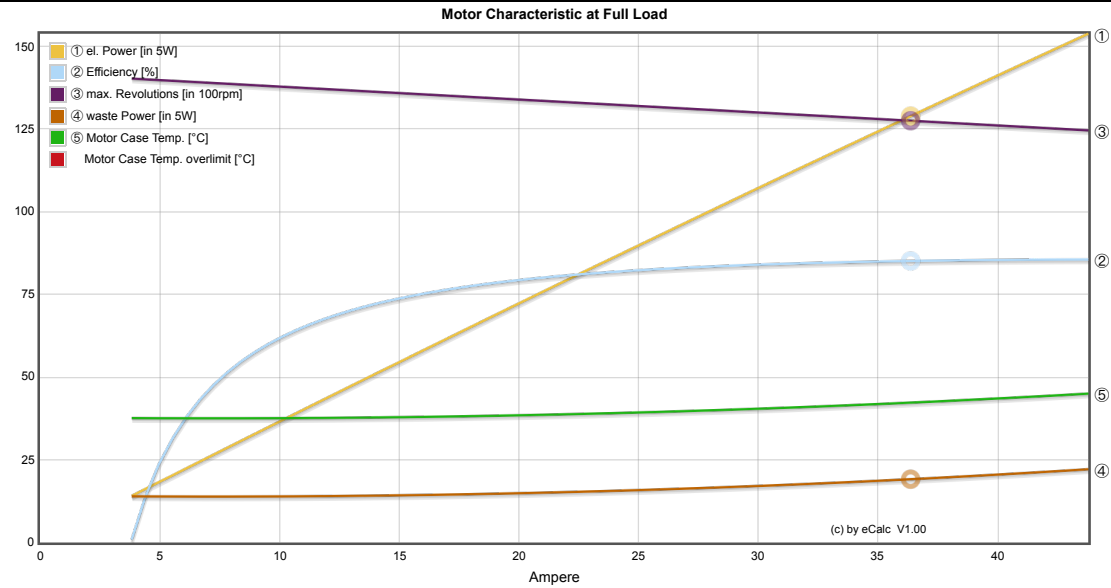
[propCalc - Propeller Calculator](#) [News \(index.htm#news\)](#) | [Toolbox \(index.htm#toolbox\)](#) | [Easy View \(motorcalc_mobile.php\)](#) | [Help \(calcinclude/help/propcalchelp.htm\)](#) | [Submit Specs \(calcmember/submitmotor.htm\)](#) | Language: english

[illegible]

Remarks:

Battery		Motor @ Optimum Efficiency		Motor @ Maximum		Propeller		Total Drive		Airplane	
Load:	9.12 C	Current:	44.76 A	Current:	36.48 A	Static Thrust:	2693 g	Drive Weight:	965 g	All-up Weight:	3175 g
Voltage:	17.90 V	Voltage:	17.55 V	Voltage:	17.73 V		95 oz		34 oz		112 oz
Rated Voltage:	18.50 V	Revolutions*:	12424 rpm	Revolutions*:	12748 rpm	Revolutions*:	12748 rpm	Power-Weight:	213 W/kg	Wing Load:	67.9 g/dm²
Energy:	74 Wh	electric Power:	785.5 W	electric Power:	646.7 W	Stall Thrust:	- g		97 W/lb		22.3 oz/ft²
Total Capacity:	4000 mAh	mech. Power:	672.4 W	mech. Power:	550.6 W		- oz	Thrust-Weight:	0.85 : 1	Cubic Wing Load:	9.9
Used Capacity:	3000 mAh	Efficiency:	85.6 %	Efficiency:	85.1 %	avail. Thrust @ 0 km/h:	2693 g	Current @ max:	36.48 A	est. Stall Speed:	39 km/h
min. Flight Time:	4.9 min			est. Temperature:	42 °C	avail. Thrust @ 0 mph:	95 oz	P(in) @ max:	674.9 W		24 mph
Mixed Flight Time:	7.1 min				108 °F	Pitch Speed:	117 km/h	P(out) @ max:	550.6 W	est. Speed (level):	93 km/h
Weight:	570 g			Rm	34.6 mΩ		73 mph	Efficiency @ max:	81.6 %		58 mph
	20.1 oz					Tip Speed:	610 km/h	Torque:	0.41 Nm	est. Speed (vertical):	- km/h
							379 mph		0.3 lbf.ft		- mph
		Wattmeter readings		Thermal Propagation		specific Thrust:	4.16 g/W	Climb Capacity:	2342 m	est. rate of climb:	7.9 m/s
		Current:	36.48 A	9 18 36	55 s		0.15 oz/W		7684 ft	(~40...45°)	1557 ft/min
		Voltage:	17.9 V	32 36 40	42 °C	n100W:	7442 rpm				
		Power:	653 W	90 97 104	107 °F	n10N:	8086 rpm				

Motor Partial Load														
Propeller	Throttle	Current (DC)	Voltage (DC)	el. Power	Efficiency	Thrust	Spec. Thrust	Pitch Speed	Speed (level)	Motor Run Time				
rpm	%	A	V	W	%	g	oz	g/W	oz/W	km/h	mph	km/h	mph	(75%) min
3200	23	0.9	18.5	16.2	54.0	170	6.0	10.5	0.37	29	18	-	-	204.9
4000	29	1.5	18.5	26.8	63.6	265	9.4	9.9	0.35	37	23	-	-	123.5
4800	35	2.3	18.5	41.9	70.3	382	13.5	9.1	0.32	44	27	-	-	78.9
5600	41	3.4	18.4	62.5	74.9	520	18.3	8.3	0.29	51	32	-	-	52.9
6400	47	4.9	18.4	89.4	78.2	679	23.9	7.6	0.27	59	36	-	-	36.9
7200	53	6.8	18.4	123.6	80.5	859	30.3	6.9	0.25	66	41	41	26	26.6
8000	60	9.1	18.3	166.2	82.2	1061	37.4	6.4	0.23	73	45	58	36	19.7
8800	66	12.0	18.3	218.0	83.3	1283	45.3	5.9	0.21	81	50	64	40	15.0
9600	73	15.5	18.2	280.2	84.2	1527	53.9	5.5	0.19	88	55	70	43	11.6
10400	79	19.6	18.2	353.6	84.8	1792	63.2	5.1	0.18	95	59	76	47	9.2
11200	86	24.5	18.1	439.4	85.2	2079	73.3	4.7	0.17	102	64	81	51	7.3
12000	93	30.2	18.0	538.6	85.5	2386	84.2	4.4	0.16	110	68	87	54	6.0
12748	100	36.5	17.9	646.7	85.1	2693	95.0	4.2	0.15	117	72	93	58	4.9



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