



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

General

Motor Cooling:
medium

of Rotors:
6

Model Weight:
2000 g
70.5 oz

incl. Drive

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 5000mAh – 30/45C - normal

Configuration:
3 S 2 P

Cell Capacity:
5000 mAh

Total Capacity:
10000 mAh

Resistance:
0.0034 Ohm

Voltage:
3.7 V

C-Rate:
30 C cont.
45 C max

Weight:
141 g
5 oz

Controller

Type:
max 30A

cont. Current:
30 A

max. Current:
30 A

Resistance:
0.008 Ohm

Weight:
40 g
1.4 oz

Motor

Manufacturer - Type (Kv):
E-flite Park 450 (890)
search...

KV (w/o torque):
890 rpm/V

no-load Current:
0.7 A @ 10 V

Limit (up to 15s):
18 A

Resistance:
0.2 Ohm

Case Length:
27 mm
1.06 inch

mag. Poles:
12

Weight:
72 g
2.5 oz

Propeller

Type - yoke twist:
custom 0°

Diameter:
11 inch

Pitch:
4.7 inch

Blades:
2

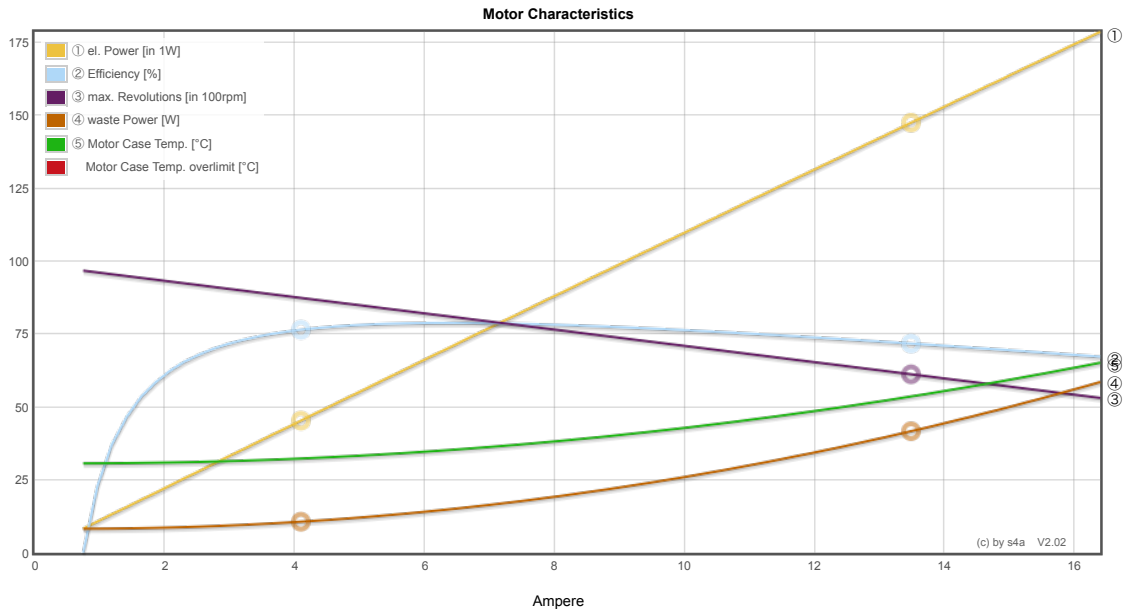
PConst:
1.3

Gear Ratio:
1 : 1

calculate

Remarks:

| Battery | Motor @ Optimum Efficiency | Motor @ Maximum | Motor @ Hover | Total Drive |
|--------------------|----------------------------|-------------------------|-------------------------|----------------------------|
| Load: | 8.20 C | Current: 6.12 A | Current: 13.67 A | Current: 4.16 A |
| Voltage: | 10.68 V | Voltage: 10.86 V | Voltage: 10.94 V | Drive Weight: 1670 g |
| Rated Voltage: | 11.10 V | Revolutions*: 8034 rpm | Revolutions*: 5760 rpm | 58.9 oz |
| Flight Time: | 7.3 min | electric Power: 66.5 W | electric Power: 144.5 W | Throttle (linear): 52 % |
| Mixed Flight Time: | 9.5 min | mech. Power: 52.3 W | mech. Power: 102.2 W | add. Payload: 1005 g |
| Hover Flight Time: | 20.4 min | Efficiency: 78.7 % | Efficiency: 70.7 % | electric Power: 45.5 W |
| Weight: | 846 g | est. Temperature: 54 °C | est. Temperature: 54 °C | mech. Power: 34.9 W |
| | 29.8 oz | | 129 °F | Efficiency: 76.6 % |
| | | | | 32 °C |
| | | | | 90 °F |
| | | | | Current @ Hover: 24.98 A |
| | | | | P(in) @ Hover: 277.3 W |
| | | | | P(out) @ Hover: 209.4 W |
| | | | | Efficiency @ Hover: 75.5 % |
| | | | | Current @ max: 82.01 A |
| | | | | P(in) @ max: 910.3 W |
| | | | | P(out) @ max: 613.2 W |
| | | | | Efficiency @ max: 67.4 % |



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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for printing use Landscape format
* The manufacturer limitation is NOT monitored
** Testdata with reduced accuracy