

Firefox

eCalc - xcopterCalc - the most reliable RC Calculator on the Web.htm

file:///C:/Users/Laptop/Desktop/eCalc - xcopterCalc - the most reliable RC Calculator on the Web.htm

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General

Motor Cooling:

medium

# of Rotors:

8

Model Weight:

10000 g

352.7 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:

custom

- normal

Configuration:

5

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2

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Cell Capacity:

8000 mAh

Total Capacity:

16000 mAh

Resistance:

0.0017 Ohm

Voltage:

3.7 V

C-Rate:

25 C cont.

50 C max.

Weight:

900 g

31.7 oz

Controller

Type:

custom

cont. Current:

70 A

max. Current:

70 A

Resistance:

0.004 Ohm

Weight:

90 g

3.2 oz

Motor

Manufacturer - Type (Kv):

Tiger Motor

custom

KV (w/o torque):

400 rpm/V

no-load Current:

1 A @ 10 V

Limit (up to 15s):

750 W

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Resistance:

0.075 Ohm

Case Length:

32.5 mm

1.28 inch

# mag. Poles:

24

Weight:

132 g

4.7 oz

Propeller

Type - yoke twist:

custom

- 0°

Diameter:

15 inch

Pitch:

7 inch

# Blades:

2

PConst:

1.3

Gear Ratio:

1 : 1

calculate

Remarks:

Battery

Load:

13.17 C

Voltage:

17.60 V

Rated Voltage:

18.50 V

Flight Time\*:

4.6 min

Mixed Flight Time:

7.7 min

Hover Flight Time:

8.2 min

Weight:

9000 g

317.5 oz

Motor @ Optimum Efficiency

Current:

18.83 A

Voltage:

17.78 V

Revolutions:

6266 rpm

electric Power:

334.9 W

mech. Power:

284.5 W

Efficiency:

85.0 %

Motor @ Maximum

Current:

26.34 A

Voltage:

17.50 V

Revolutions:

5814 rpm

electric Power:

461.0 W

mech. Power:

387.5 W

Efficiency:

84.1 %

est. Temperature:

67 °C

153 °F

Motor @ Hover

Current:

12.39 A

Voltage:

18.03 V

Throttle (linear):

72 %

electric Power:

223.3 W

mech. Power:

185.9 W

Efficiency:

83.2 %

est. Temperature:

46 °C

115 °F

Total Drive

Drive Weight:

11854 g

418.1 oz

All-up Weight:

10000 g

352.7 oz

add. Payload:

1257 g

44.3 oz

Current @ Hover:

99.09 A

P(in) @ Hover:

1833 W

P(out) @ Hover:

1487 W

Efficiency @ Hover:

81.1 %

Current @ max:

210.74 A

P(in) @ max:

3899 W

P(out) @ max:

3100 W

Efficiency @ max:

79.5 %

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