

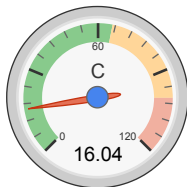
eCalc membership starts from \$0.99 only - **Avoid** further mispurchases for little money**Sign-up now** ([./calcmember/signup.php](http://www.ecalc.ch/calcmember/signup.php)) for the full version with instant access to **9486 specified parts...**News ([index.htm](http://www.ecalc.ch/index.htm)) Jan 4th: Motor Database Updated / new eCalc V7.15 with new features ([./release.php](http://www.ecalc.ch/release.php)) - new evCalc V3.00 ([./evcalc.php](http://www.ecalc.ch/evcalc.php))**S4A**<http://www.s4a.ch>**Restricted Demo Version**sign-up ([calcmember/signup.php](http://www.ecalc.ch/calcmember/signup.php)) for full version starts from \$0.99 only[index.htm](http://www.ecalc.ch/index.htm)<https://www.facebook.com/group>

sign-up

all data without guarantee - Accuracy: +/-15%

**xcopterCalc - Multicopter Calculator** News ([index.htm](http://www.ecalc.ch/index.htm)) | Toolbox ([index.htm#toolbox](http://www.ecalc.ch/index.htm#toolbox)) | Easy View ([xcopterCalc\\_mo](http://www.ecalc.ch/xcopterCalc_mo))

<b>General</b>	Model Weight: <input type="text" value="1000"/> g <input type="text" value="w/o Drive"/> <input type="text" value="35.3"/> oz	# of Rotors: <input type="text" value="4"/> <input type="text" value="flat"/>	Frame Size: <input type="text" value="400"/> mm <input type="text" value="15.75"/> inch	FCU Tilt L <input type="text" value="no limit"/>
<b>Battery Cell</b>	Type (Cont. / max. C) - charge state: <input type="text" value="LiPo 4500mAh - 65/100C"/> - <input type="text" value="normal"/>	Configuration: <input type="text" value="4"/> S <input type="text" value="1"/> P	Cell Capacity: <input type="text" value="4500"/> mAh <input type="text" value="4500"/> mAh total	max. discl <input type="text" value="85%"/>
<b>Controller</b>	Type: <input type="text" value="max 80A"/>	Current: <input type="text" value="80"/> A cont. <input type="text" value="80"/> A max	Resistance: <input type="text" value="0.003"/> Ohm	Weight: <input type="text" value="105"/> g <input type="text" value="3.7"/> oz
<b>Motor</b>	Manufacturer - Type (Kv) - Cooling: <input type="text" value="RCTimer"/> - <input type="text" value="BC3536-11 (750)"/> <input type="text" value="good"/> <input type="text" value="search..."/>	KV (w/o torque): <input type="text" value="750"/> rpm/V <input type="text" value="Prop-Kv-Wizard"/>	no-load Current: <input type="text" value="0.8"/> A @ <input type="text" value="10"/> V	Limit (up t <input type="text" value="350"/>
<b>Propeller</b>	Type - yoke twist: <input type="text" value="APC Electric E"/> - <input type="text" value="0°"/>	Diameter: <input type="text" value="11"/> inch <input type="text" value="279.4"/> mm	Pitch: <input type="text" value="4.7"/> inch <input type="text" value="119"/> mm	# Blades: <input type="text" value="2"/>



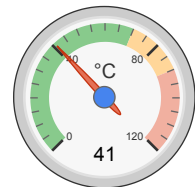
Load:



Hover Flight Time:



electric Power:



est. Temperature:

**Remarks:****Battery**

Load: 16.04 C  
 Voltage: 14.11 V  
 Rated Voltage: 14.80 V  
 Energy: 66.6 Wh  
 Total Capacity: 4500 mAh  
 Used Capacity: 3825 mAh  
 min. Flight Time: 3.2 min  
 Mixed Flight Time: 6.9 min  
 Hover Flight Time: 8.7 min  
 Weight: 504 g  
 17.8 oz

**Motor @ Optimum Efficiency**

Current: 11.74 A  
 Voltage: 14.31 V  
 Revolutions\*: 9833 rpm  
 electric Power: 167.9 W  
 mech. Power: 141.1 W  
 Efficiency: 84.0 %

**Motor @ Maximum**

Current: 18.05 A  
 Voltage: 14.04 V  
 Revolutions\*: 9151 rpm  
 electric Power: 253.5 W  
 mech. Power: 209.0 W  
 Power-Weight: 411.2 W/kg  
 186.5 W/lb  
 Efficiency: 82.5 %  
 est. Temperature: 41 °C  
 106 °F

**Wattmeter readings**

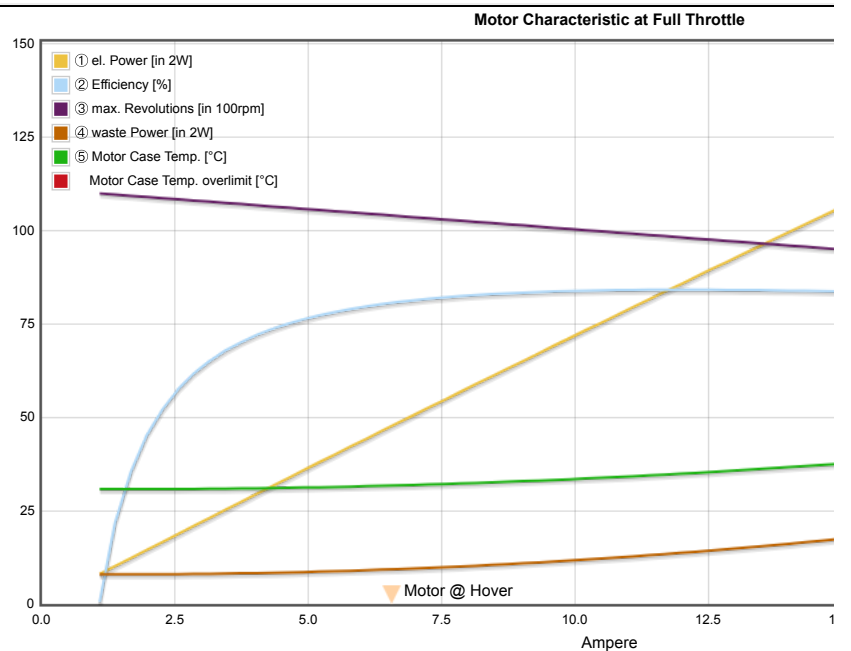
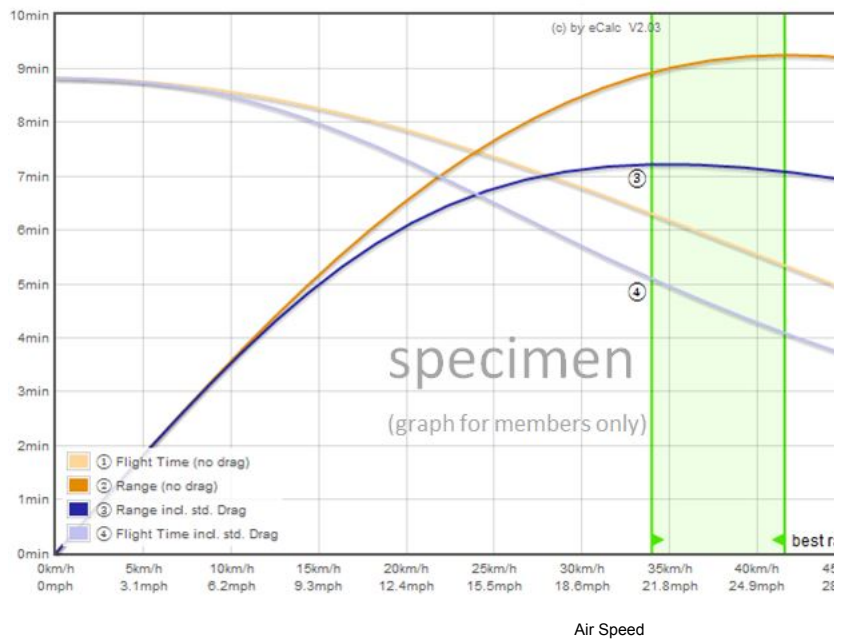
Current: 72.2 A  
 Voltage: 14.11 V  
 Power: 1018.7 W

**Motor @ Hover**

Current:  
 Voltage:  
 Revolutions\*:  
 Throttle (log):  
 Throttle (linear):  
 electric Power:  
 mech. Power:  
 Power-Weight:  
 Efficiency:  
 est. Temperature:

specific Thrust:

[share](#)**Range Estimator**



#### 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!**

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Version: X7.15, 3.12.18 / Data: 04.1.19 with 9018 Motors  
translated to english by Markus Mueller

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