Sebart Miss Ultimate 50E

Looking at the specs for the recommended Hacker A50-16S, that motor has external dimensions of 48.7mm diameter by 52.2mm length, a Kv value of 365 and weighs 345 grams.

This makes the Hacker motor about the same size as our Tempest 4130 series motors which are 49.8mm in diameter by 52.9mm in length and weigh 378 grams. Our 400Kv version of this motor will spin our BadAss 16x10 or 17x8 wood props on 6 cells.

The BadAss 17x8 prop will get you these numbers at full throttle.

Volts – 22.2
Amps – 65.6
Watts – 1456
RPM – 7511
Thrust – 203 ounces (12 pounds 11 ounces)
Speed – 57 MPH

If you wanted to trade off some thrust for additional speed, with the BadAss 16x10 prop you would get these full throttle performance numbers.

Volts – 22.2
Amps – 66.1
Watts – 1468
RPM – 7515
Thrust – 181 ounces (11 pounds 5 ounces)
Speed – 71 MPH

That motor is rated for up to 68 amps of continuous current, so you would want to pair it with an 80-amp ESC.

If you wanted closer to 3D level of performance, then our BadAss 4530-470 motor would work extremely well in this aircraft with the same BadAss 16x10 and 17x8 props. This motor is the same length as the Hacker motor at 52.3mm, but has a slightly larger diameter of 55mm because it uses a 45mm diameter stator instead of the 40mm diameter stator used by the Hacker motor. It is also slightly heavier at 394 grams, but it more than makes up for that slight increase in weight with the extra thrust that is available.

The BA-4530-470 motor with a BadAss 17x8 prop will get you these numbers at full throttle.

Volts – 22.2
Amps – 76.1
Watts – 1703
RPM – 7967
Thrust – 233 ounces (14 pounds 9 ounces)
Speed – 60 MPH

One again, if you wanted to trade off some thrust for additional speed, with the BadAss 16x10 prop you would get these full throttle performance numbers.

Volts – 22.2
Amps – 77.0
Watts – 1710
RPM – 77960
Thrust – 196 ounces (12 pounds 4 ounces)
Speed – 75 MPH

This motor is rated for up to 78 amps, so you would want to run a 100-amp ESC with it to have planet of reserve capacity.

Below are links to these two power systems listed above.

Tempest Power

Tempest 4130-400Kv Motor: https://innov8tivedesigns.com/tempest-4130-400kv-brushless-motor.html

Tempest 80-Amp ESC: https://innov8tivedesigns.com/tempest-brushless-esc-80a-6s.html

BadAss Power

BadAss 4520-470Kv Motor: https://innov8tivedesigns.com/catalog/product/view/id/1887/s/badass-4520-470kv-brushless-motor/category/324/

BadAss 100-Amp Rebel V2 ESC: https://innov8tivedesigns.com/badass-rebel-v2-series-brushless-esc-100a.html

Power System Extras:

Both of these motors would use the same battery and props shown below.

BadAss 6-cell 5000mah LiPo Battery: https://innov8tivedesigns.com/badass-45c-5000mah-6s-lipo-battery.html

BadAss 16x10 Wood Prop: https://innov8tivedesigns.com/badass-wood-electric-propeller-16x10.html

BadAss 17x8 Wood Prop: https://innov8tivedesigns.com/badass-wood-electric-propeller-17x8.html

If you need a spinner for the kit, we have a full line of both standard and AirFlow type spinners available in 5 different colors and a wide range of sizes.

Standard Spinners: https://innov8tivedesigns.com/products/spinners.html?cat=303
AirFlow Spinners: https://innov8tivedesigns.com/products/spinners.html?cat=305