Sig Smith MiniPlane

On this plane, being about 1-1/4 pounds lighter, you can get by with a slightly smaller motor if you want. Or, you could use the same power system above if you wanted to, and just drop back to an 11x5.5 or 11x6 prop and get these performance numbers.

Volts – 14.8
Amps – 49.2
Watts – 729
RPM – 11,476
Thrust – 107 ounces (6 pounds 11 ounces)
Speed – 60 MPH

If you wanted to save a little weight and go with a 12-inch prop, then the BA-2820-910 motor would also work very well in this plane. This would be a lower revving, quieter set-up for more relaxed flying, but still with enough power for unlimited vertical. On 4 LiPo cells with a 12x6-E prop you would get these full throttle performance numbers.

Volts – 14.8
Amps – 51.3
Watts – 759
RPM – 9894
Thrust – 105 ounces (6 pounds 9 ounces)
Speed – 56 MPH

With this set-up, a 4-cell 4000mah battery would be a good size, and since the motor is rated for 65 amps of current, an 80-amp ESC would be a good choice. Here are links to these items.

BadAss BA-2820-910 Motor: https://innov8tivedesigns.com/badass-2820-910kv-brushless-motor.html

BadAss Rebel V2 80-amp ESC: https://innov8tivedesigns.com/badass-rebel-v2-series-brushless-esc-80a.html

BadAss 4-cell 4000mah LiPo Battery: https://innov8tivedesigns.com/badass-45c-4000mah-4s-lipo-battery.html

APC 12x6-E Prop: https://innov8tivedesigns.com/cobra-80a-esc-with-6a-switching-bec.html

BadAss 12x6 Wood Prop: https://innov8tivedesigns.com/badass-wood-electric-propeller-12x6.html

If you need a spinner for either of these planes, we have a full line of them available in both standard cone and in our AirFlow series for increased motor cooling at the following link.

https://innov8tivedesigns.com/products/spinners.html