

Webocalc 1.7.6 - Metric Units

Airframe Details

All Up Weight (gm) Number Of Wings Wingspan (mm) Total Wing Area (dm²) Number of Propellers Maximum Prop. Size (inches) [Run Prop Size Wizard](#)

Performance Details

Flight Mission Desired Top Speed (km/hr) [Suggest Top Speed](#)Desired Thrust (gm) [Suggest Thrust](#)Desired Flight Duration (minutes) [Get More Information](#)

Powertrain Details

Motor Efficiency (%) Select battery chemistry & cell count below **Or** [Run Battery Wizard](#) Battery Voltage (V) Desired Current Per Motor (A) Motor Kv (rpm/volt) [Run Kv Wizard](#)

Estimated Model Performance

WebOCalc Results:

Flies Like: Advanced Glow Trainer.

Power Level: Aerobatic.
(with white highlighted prop) 60 degree climbouts.

Minimum Pilot Skill Needed: Intermediate.

Minimum Flying Field Size: 230 x 160 metres.

Minimum Battery Size: 3S, 1000 mAh, 8 C, lithium polymer.

Estimated Flight Duration: 11 to 19 minutes depending on pilot.
Will vary with throttle usage.

Suggested ESC Rating: 10 A to 12 A.

Power Into / Out of Motor: 86.4 watts in / 64.8 watts out.

Power To Weight Ratio: 174.55 watts/kg.

Estimated Stall Speed: 23.3 km/hr.

Wing Loading: 26.6 gm/dm².Cubic Wing Loading: 7.0 gm/dm³.

Suggested Prop Sizes (approx):

For direct-drive, use props with gear ratio 1.00.
Adjust current and/or pitch speed if necessary to obtain this ratio.

White: propeller with most thrust.

Yellow: best choice for direct-drive.

Prop Type	Dia (in)	Pitch (in)	RPM	Vpitch (kmph)	Thrust (gm)	Thrust Change	Approx Gear Ratio
APC-TE	8.0	4.0	8808	53.7	468.1	0.0	1.38