TL Ultralight TL-3000 Sirius Model Guide

The TL Ultralight TL-3000 Sirius is a two-seat, side-by-side, high-wing ultralight with tricycle gear and a carbon fiber and fiberglass sandwich structure. The documents describe a Rotax 912 ULS engine rated at 100 BHP, a rescue parachute system and 130 l of fuel in two wing tanks. It is limited to daytime VFR, with no aerobatics or spins.

KEY TAKEAWAYS

- Max takeoff weight is 472.5 kg. One seat is limited to 90 kg, minimum crew is 60 kg, and baggage behind the seats is limited to 25 kg.
- Handbook figures: cruise (VH) 120 kt, climb 1100 ft/min at 65 kt, stall 36 kt clean and 31 kt full flaps, range up to 2000 km with no reserve.
- Daytime VFR only. IFR and icing conditions are forbidden, and aerobatics and intentional spins are prohibited.
- The two handbooks disagree on some figures (VNE, wing area, length). Confirm which one applies to the aircraft you are buying.

POWERPLANT AND FUEL

Rotax 912 ULS, 100 BHP at 5800 RPM, with a three-blade DUC ground-adjustable propeller. Fuel is 130 l (2 x 65 l), burning up to 27 l/h at 5500 RPM. Approved fuel is 91 unleaded auto gas. 100LL is an alternate for less than 30% of engine time. Avoid ethanol fuels.

SIZE AND STRUCTURE

Wing span is 9400 mm, length is 6970 mm in one POH (6,75 m in the other), and cabin width is 1130 mm. Glide ratio is listed as 13:1 and service ceiling as 6000 m. The airframe is all composite. The aircraft has hydraulic disc brakes and a steerable nose wheel.

WHAT TO CHECK BEFORE BUYING

The manuals conflict. Gross weight is 450 kg (472.5 kg with parachute) in one POH and 472.5 kg in the other. VNE is 138 kt in one and 253 km/h in the other, with a 230 km/h red line. Wing area is 11,26 m2 versus 11,15 m2. Ask for inspection logs: the maintenance manual lists 25 h, 50 h, 100 h, annual and 300 h inspections.

SPECIFICATIONS

Engine Power Hp	100

PERFORMANCE

Max Cruise Speed Kts	120
Rate Of Climb Fpm	1100
Stall Speed Clean Kts	36
Stall Speed Full Flaps Kts	31

V-SPEEDS

Vne Kts	138
Va Kts	81
Vfe Stage1 Kts	75
Vfe Stage2 Kts	65
Vs Kts	36
Vso Kts	31
Vy Kts	65

SAFETY NOTES

- Cabin doors can depart the airframe above 55 kts if unlatched in flight. Do not open them airborne with smoke on board.
- The engine is not certified as an aviation engine, and the manual says it can fail at any time. Carburetor icing is a listed emergency.
- In an in-flight fire, do not deploy the parachute system at high altitude.

AI-aggregated guide for the TL Ultralight TL-3000 Sirius · sources: TL-3000 Sirius PILOT´S OPERATING HANDBOOK (#100354) · Flight and operational manual TL 3000 SIRIUS (#100355) · Aircraft Maintenance Manual (#100687) · generated 2026-11-25 · Reference only, not for flight. Check the original documents before relying on this guide.