

EVEKTOR SportStar RTC Model Guide

EVEKTOR SportStar RTC is a single-engine piston aircraft built by Evektor in Kunovice, Czech Republic. It uses Rotax 912-series engines: the 912 ULS, with the 912 S allowed as an option. This guide draws on a club checklist, the Pilot's Operating Handbook revision log and manufacturer bulletins. It does not use the full POH performance tables.

KEY TAKEAWAYS

- Max takeoff and landing mass is 600 kg; rear baggage max 25 kg. With a passenger, check weight and balance (typically max 80 litres fuel).
- Fuel burn is 18 l/h at 4800 rpm; 118 litres usable of 120 litres total.
- Safety-related bulletins cover engine mount bolts and oil hose sleeves. Confirm both are recorded in the logbook.
- The POH has reached Rev. 16 (2024). The manual is valid only if kept up to date.

SPEEDS AND HANDLING

The club checklist gives VNE 146 kt, VNO 115 kt and VFE 70 kt. Stall speed is 42 kt clean and 39 kt with flaps at the third notch. Best glide is 59 kt clean. Demonstrated crosswind is 18 kt. The checklist says the flight manual remains the reference.

ENGINE, FUEL AND OIL

Engine is the Rotax 912 ULS; bulletin RTC-074b R1 (December 2024) allows a 912 S instead. Fuel is SP98/UL91, or 100LL if unavailable (note it in the logbook). Oil is AeroShell 10W40 Sport+. Avoid filling above 50 litres per tank when parked. Bulletin RTC-053b adds an optional fuel pulsation damper on 912 S aircraft.

BULLETINS TO VERIFY

RTC-068a SR: replace engine-to-mount bolts, tighten to 40 Nm, within 30 calendar days or at the next scheduled service. RTC-067a SR: fit Pyrojacket sleeves on oil hoses of 912 ULS2/S2 engines, by the 100-hour or annual inspection. RTC-020a: POH Rev. 5 for adjustable foot pedals and an electrical system limitation.

V-SPEEDS

Vne Kts	146
Vno Kts	115
Vfe Kts	70
Stall Clean Kts	42
Stall Flaps 1 Kts	41
Stall Flaps 3 Kts	39
Best Glide Clean Kts	59
Max Demonstrated Crosswind Kts	18

WEIGHT & BALANCE

Max Takeoff Weight Kg	600
Max Landing Weight Kg	600
Max Baggage Kg	25

SAFETY NOTES

- RTC-068a SR (engine mount bolts) and RTC-067a SR (oil hose sleeves) are safety related. Check the logbook for the required entries.
- Preflight per the checklist: check coolant and oil levels, confirm the radiator is unobstructed, and verify fuel quantity visually against the gauge.
- Run-up at 4000 rpm: maximum drop 300 rpm on one ignition, maximum difference between ignitions 150 rpm.