

CZAW SportCruiser Model Guide

The CZAW SportCruiser is a two-seat, single-engine piston light aircraft with a Rotax 912 ULS engine rated at 73.5 kW (98.6 hp). The handbooks give a 600 kg maximum takeoff weight and 113 L of usable fuel. It is approved for day VFR only. The two handbooks supplied differ in places, so confirm which one applies to the airframe you are buying.

KEY TAKEAWAYS

- Two seats, 600 kg max takeoff weight, 113 L usable fuel. Cruise is 93 knots at 75% power at 3,000 ft.
- Quoted range is 512 NM (Cruiser POH) or 516 NM (SportCruiser POH), with a 30 minute reserve.
- Day VFR only. IFR flight and intentional flight in icing conditions are prohibited.
- The two handbooks differ on empty weight, wing locker limit, stall speeds and service ceiling. Check which one matches the airframe.

WEIGHTS AND LOADING

Max takeoff and landing weight is 600 kg. Max fuel weight is 82 kg and rear fuselage baggage is 18 kg. The wing locker limit is 10 kg each in the Cruiser POH and 20 kg each in the SportCruiser POH. Max empty weight is 405 kg (Cruiser POH). The SportCruiser POH lists 345 kg empty with minimum equipment. Max crew weight is 115 kg per seat. Actual empty weight is in Section 9, Supplement No. 02.

ENGINE AND FUEL

The Rotax 912 ULS makes 73.5 kW at 5,800 rpm (max 5 min) and 69 kW continuous at 5,500 rpm. Two wing tanks hold 57 L each, 114 L total, 113 L usable. MOGAS (min RON 95) is recommended, and fuels with more than 5% ethanol are not permitted. AVGAS 100 LL stresses the valve seats and builds deposits, so use it only for vapor lock problems or when other fuel is unavailable.

TAKEOFF, LANDING AND CLIMB (SPORTCRUISER POH)

Figures are for 600 kg, ISA, sea level, with flaps 15° for takeoff. Takeoff run is 463 ft on concrete and 702 ft on grass. Distance over a 50 ft obstacle is 1,270 ft on concrete and 1,499 ft on grass. Landing over 50 ft is 1,188 ft on concrete. Rate of climb is 825 fpm at sea level and 355 fpm at 9000 ft.

SPECIFICATIONS

Wing Span Ft	28.9
Length Ft	21.33
Height Ft	7.78
Cockpit Width In	46
Propeller Diameter In	68
Engine Power Hp	98.6
Fuel Capacity Gal	30.12
Usable Fuel Gal	29.86

PERFORMANCE

Max Speed Sea Level Kts	116
Cruise Speed Kts	93
Range Nm	516
Rate Of Climb Fpm	825
Service Ceiling Ft	14378
Stall Speed Flaps Up Kts	39
Stall Speed Flaps Down Kts	32

V-SPEEDS

Best Angle Climb Kts	56
Best Rate Climb Kts	62
Maneuvering Speed Kts	88
Max Structural Cruise Kts	108
Never Exceed Kts	138
Max Flap Extended Kts	75
Approach Speed Kts	60

WEIGHT & BALANCE

Max Takeoff Weight Lbs	1320
Max Fuel Weight Lbs	180
Max Baggage Rear Lbs	40
Max Baggage Wing Locker Lbs	44
Empty Weight Lbs	760
Max Crew Weight Per Seat Lbs	253

SAFETY NOTES

- Day VFR only. IFR flight and intentional flight in icing conditions are prohibited.
- Do not exceed the 600 kg max takeoff weight. The emergency parachute is approved for up to 612 kg and 120 knots.
- Do not idle fully on final or in long descents: the engine can under-cool and lose power. 6 L of fuel allows only about 15 minutes of safe operation.