

TECNAM P-92 Echo S Model Guide

The TECNAM P-92 Echo S is a two-place, single-engine, all-metal high-wing airplane with tricycle landing gear. It is ASTM compliant, for sport pilots and higher-rated pilots. The Echo Super maintenance manual lists a Rotax 912 ULS engine. The supplied documents cover several P92 variants, so check every figure against the manual for the exact aircraft.

KEY TAKEAWAYS

- Echo Super is an all-metal, two-place, high-wing, ASTM-compliant airplane. The maintenance manual calls it uncomplicated and sturdy.
- Engine is a Rotax 912 ULS (1352 c.c.), with the 912 S2 optional. Confirm which engine the aircraft actually has.
- Cruise table (P92 JS checklist, 600 kg MTOW): 108 KTAS at 75% power, with 2 x 45 L tanks.
- Fuel gauges are for reference only. Verify the actual fuel quantity before every departure.

AIRFRAME AND ENGINE

Echo Super wing span is 8.70 m (28.54 ft) with a 1.400 m chord and aspect ratio 6.31. The engine is a Bombardier-Rotax 912 ULS or optional 912 S2: four-cylinder, horizontally opposed, 1352 c.c. Spare parts come from Tecnam Australasia Ltd or a local dealer.

VARIANT DIFFERENCES TO WATCH

The P92 Classic Deluxe manual gives 450 kg max takeoff, 289 kg standard empty weight and two 45 L wing tanks (90 L total). The P92 JS checklist states 600 kg MTOW. The Echo Super US-LSA flight manual is revision 5.00 (08-05-2014), with chapters 2 and 3 revised. Confirm weights for your aircraft.

SPEEDS AND CRUISE (P92 JS CHECKLIST)

Vne 141 KIAS, Vno 110, Vfe 71, Vy 73, best glide 69, max crosswind 15 kts. Sea-level cruise at 75% power and 2150 rpm: 108 KTAS, 20 L/h, 4.4 h, 472 nm. At 55%: 96 KTAS, 15 L/h, 5.8 h, 599 nm. These are not Echo Super figures.

SPECIFICATIONS

Wing Span Ft	28.54
Wing Chord Ft	4.6
Flap Span Ft	6.463

PERFORMANCE

Cruise Speed 75pct Kts	108
Range 75pct Nm	472
Cruise Speed 55pct Kts	96
Range 55pct Nm	599

V-SPEEDS

Rotate Speed Kts	48
Best Rate Of Climb Kts	73
Best Glide Kts	69
Maneuvering Speed Kts	97
Vno Kts	110
Vne Kts	141
Vfe Kts	71

SAFETY NOTES

- Fuel indicators are reference only. The pilot must verify the actual fuel quantity before departure.
- Drain the fuel circuit with the wings level, using the firewall drain valve. Check for water or contaminants.
- Run-up: maximum magneto drop is 130 rpm each. If fuel pressure falls below 2.2 psi, turn the fuel pump on and land as soon as possible.