PIPISTREL VELIS ELECTRO Model Guide

The PIPISTREL VELIS ELECTRO (Virus SW 128) is a two-seat, high-wing, T-tail electric aircraft of composite construction. It has a Pipistrel E-811-268MVLC motor and a fixed-pitch propeller. It is certified under EASA CS-LSA, limited to VFR-day operation and 600 kg takeoff weight, with no baggage compartment.

KEY TAKEAWAYS

- Two seats, 600 kg max takeoff weight, 172 kg useful load, no baggage; one club checklist caps weight per seat at 110 kg.
- Two battery packs sit fore and aft of the cabin; a single pack can support climb and continued flight.
- Operation is VFR day only; not approved for intentional spins or glider towing.
- Takeoff power is 57.6 kW for up to 90 sec; maximum continuous power is 49.2 kW.

AIRFRAME AND POWERTRAIN

Composite structure, 6.47 m long, 10.71 m span, 9.51 m² wing area. Liquid-cooled electric motor with a 3-blade fixed-pitch propeller of 1640 mm diameter. Tricycle fixed gear, steerable nose wheel, hydraulic disc brakes. Entry is through two gull-wing doors.

LIMITS AND LOADING

VNE 108, VNO 98, VA 100 KIAS. Flap limits are 81 KIAS (+1) and 65 KIAS (+2). Stall speed is 53 KIAS clean and 46 KIAS landing. CG range with crew is 25.2% to 32.6% MAC. Design empty weight is 428 kg, so useful load is 172 kg; check the aircraft's own weight and balance report.

WHAT TO CHECK BEFORE BUYING

Read the battery state of health (SOH) on the EPSI System page, along with temperatures and Hobbs time. The POH lists two battery types (PB345V124E-L or PB345V119E-L), and revision C01 prohibits mixing types. Confirm which is fitted. Also check the POH revision status and the weight and balance report.

SPECIFICATIONS

Max Takeoff Weight Kg	600
Design Empty Weight Kg	428
Design Useful Load Kg	172
Length M	6.47
Wingspan M	10.71
Wing Area M2	9.51
Max Takeoff Power Kw	57.6
Max Continuous Power Kw	49.2

PERFORMANCE

Climb Power Kw	48
Max Demonstrated Crosswind Kts	15

V-SPEEDS

Vne Kts	108
Vno Kts	98
Va Kts	100
Vfe Flaps 1 Kts	81
Vfe Flaps 2 Kts	65
Vs Clean Kts	53
Vs0 Landing Kts	46
Best Glide Kts	70

WEIGHT & BALANCE

Max Takeoff Weight Kg	600
Max Landing Weight Kg	600
Min Useful Load Kg	172
Max Weight Per Seat Kg	110
Forward Cg Percent Mac	25.2
Aft Cg Percent Mac	32.6
Forward Cg Mm	269
Aft Cg Mm	336

SAFETY NOTES

- The POH warns of high-voltage hazards; it carries external high-voltage placards. Follow the ground-risk leaflet.
- A club checklist (Lausanne Aeroclub) says not to go around if remaining energy is below 15%, and requires SOC of at least 50% for flight.
- Keep to VFR day only. Stay out of the yellow arc (98-108 KIAS) except in smooth air, and never exceed 108 KIAS.

AI-aggregated guide for the PIPISTREL VELIS ELECTRO · sources: PILOT'S OPERATING HANDBOOK - VELIS Electro (#101864) · HB-SYI LAUSANNE AEROCLUB - VELIS Electro SW128 (#102885) · generated 2026-11-24 · Reference only, not for flight. Check the original documents before relying on this guide.