

LAK -17B FES

(Front Electric Sustainer)

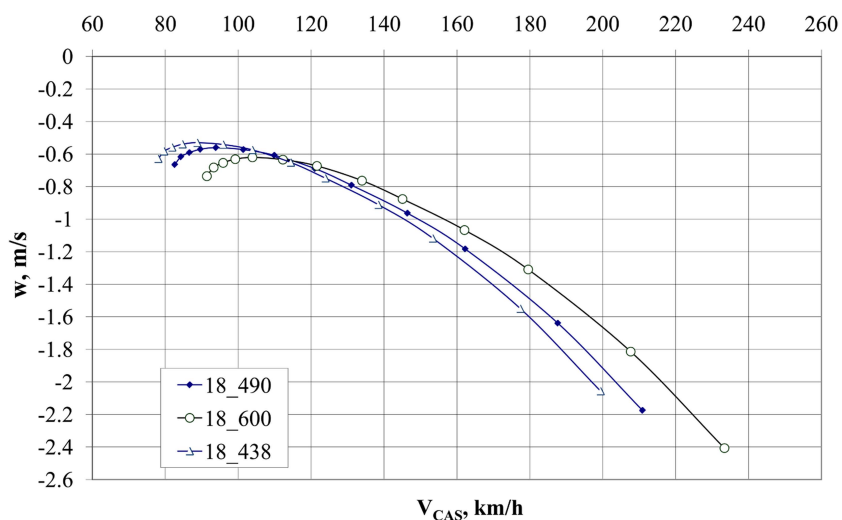


LAK-17B is a version of **LAK17A**. Regarding A version, B has wings with modified geometry and wing profile, which allow even higher wing loadings than competitors. Fuselage and tail section is identical like A version.

Front Electric Sustainer is a highly effective propulsion system with a light but powerful brushless electrical motor and small and foldable propeller at the front part of fuselage.

An electric motor with a foldable propeller can be safely started at low altitude as on a downwind leg which gives you an edge on days with weak thermals.

VERSION	LAK17B	LAK17B	LAK17B FES	LAK17B FES
Wing span	15 m	18 m	15 m	18 m
Wing area	9.18 m ²	10.32 m ²	9.18 m ²	10.32 m ²
Fuselage lenght	6.53 m	6.53 m	6.53 m	6.53 m
Fuselage height	1.32 m	1.32 m	1.32 m	1.32 m
Aspect ratio	24.5	31.4	24.5	31.4
Empty weight	250 kg	260 kg	285 kg	295 kg
Max TOW	550 kg	600 kg	550 kg	600 kg
Water ballast in wings	160 kg	200 kg	130 kg	170 kg
Water ballast in fuselage (optional)	30 kg	30 kg	batteries	batteries
Batteries weight	/	/	24kg	24kg
Min. wing loading	34.8 kg/m ²	32 kg/m ²	39 kg/m ²	35.8 kg/m ²
Max. wing loading	60 kg/m ²	58 kg/m ²	60 kg/m ²	58 kg/m ²
Vne	270 km/h	270 km/h	270 km/h	270 km/h



FRONT ELECTRIC SUSTAINER

- overall system weight - 50 kg

MOTOR

- specially designed for FES
- outrunner BLDC brushless synchronous permanent magnet motor with electronically controlled commutation system 3 phase
- 20 kW continuous power
- length: 100 mm
- diameter: 180 mm
- weight: only 7 kg

PROPELLER

- carbon fibre foldable propeller
- blades shaped to the front surface of the fuselage
- diameter: 1 m
- automatically opens when motor starts
- folded blades are aligned even closer to the fuselage

BATTERIES

- 28 lithium polymer cells
- capacity of each cell: 43 Ah
- available energy: 4.2 kWh
- 2 battery boxes, each weighting 15 kg
- life expectancy: more than 10 years
- charger: Special Li-Po with active BMS
- charging time: 3 hours each box, if fully discharged (6h total) - with standard 1000W charger
- with optional 3000W charger in 2h both packs
- supplies power for all instrumentation on board

