

Developing an electric seaplane sea + land + air

Eric Lithun CEO Elfly Group 2024.05.07 Gothenburg







Eric Lithun CEO



Tomas **Brødreskift** СТО



Eirik Sandal CFO



Total of 20 employees - 12 nationalities





+ ~10 freelance + 2 post docs NTNU

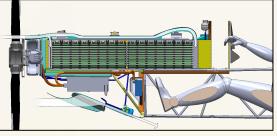


60 + years combined electric aviation experience



















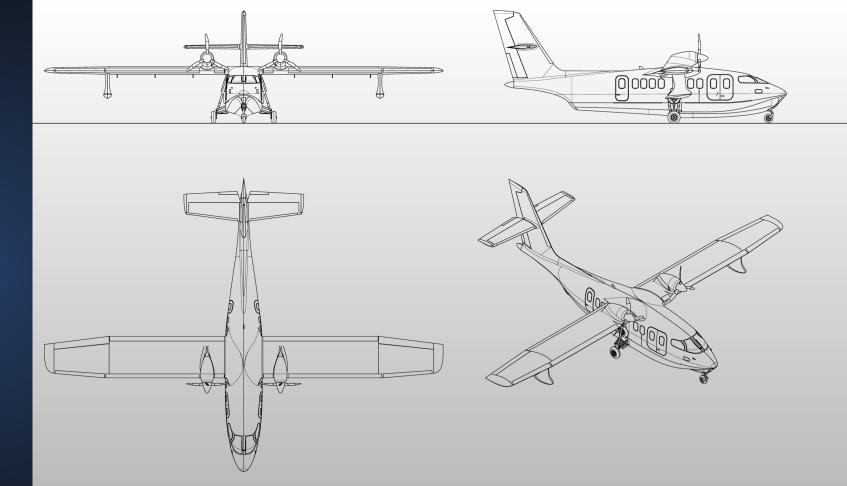


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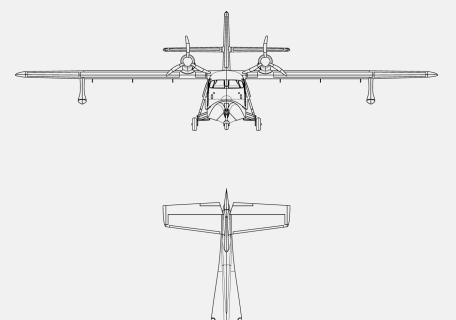


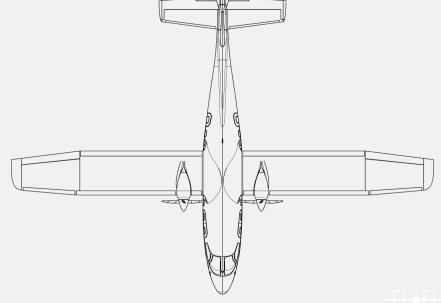




Specification

MTOW	MAX Power
5.670 kg	950 kW
T/O Distance WATER (35ft)	LNDG Roll >50ft
> 1000 m	850 m
Cruising Speed	Stall speed
108 kts	61 kts
<u>Datasheet</u>	







MTOW // 1000kg payload // 9+1 (13+2) // Certification CS-23 Level 3 (Level 4)



Elfly Group - Noemi

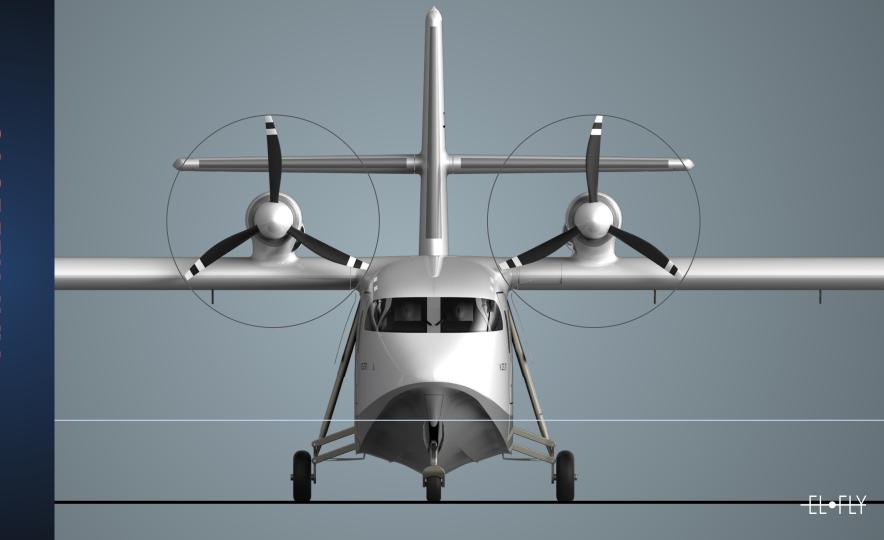
100% Battery Electric (30 min Charge) // 170km (ex IFR reserve 45min) // 5.670kg MTOW // 1000kg payload // 9+1 (13+2) // Certification CS-23 Level 4













Dressed for the occasion

Flexible configurations for the world's many needs

Commuter

Nine-passenger loadout for comfortable, quiet rides, maximizing operating and commercial efficiency.

Tourist

Thirteen-passenger loadout for sightseeing tours.

Executive

An elegant, efficient option for businesses across the coast.

Special Mission

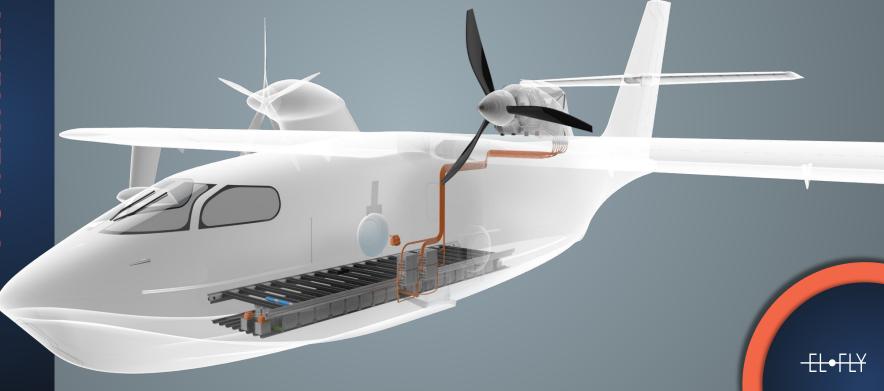
For medevac and special missions that connect far-flung locales with critical infrastructure.

Cargo

Four euro-pallet capacity, enabling new logistics.

Powertrain Conceptual Layout General layout for TAC1 (only left side depicted)

- ESS mounted under floor in cabin in the hull of the aircraft.
- ESS architecture consist of 8 strings of <15 modules providing 800(+)V to each of 4 inverters
- EPU and Inverters bed mounted atop wing structure
- Routing of cables minimal distances via BPMU's mounted on the wall with easy access





Range: 170km

Range: 240km

(conservative w/2029 battery tech)

Range: 315km

(conservative w/2040 battery tech)





- Dedicated easy to use Pier to Aircraft docking systems, with charging and auxiliaries
- Virtual takeoff and landing zone
- Sensor system for safe operations (wave height, currents. wind direction, obstructions in water)
- Floating and mobile airport terminal with remote tower

FLOATING AIRPORT

SENSOR

ANDING & TAKEOFF ZONE





