



# Solar Boat Consulting



Electric boat Stenella (=Dolphin) is looking for a new ownership

Price: 279'000 Euro (ex. Tax.)



Stenella, Source: <https://naturfotografen-forum.de>



## Target group

- Charter company with flair for exclusivity & sustainability > Stenella sails under Spanish flag and holds charter license (6th list).
- Research team with need for quiet, emission-free propulsion
- Patrol boat for nature reserve (e.g.: Caprera archipelago, Mallorca)
- Private individuals with sense for clean energy, relaxed cruising and uniqueness



**Stenella** as support and research vessel in spring 2023 on the occasion of the Trofeo Sofia in the Bay of Palma. Mission: Measure the CO-2 load from the regatta.



## Long Range Cruiser 39"

- Length: 11.9m | Width: 2.45m
- Draft: 0.9m
- Weight: 3.6 t
- Electric motor: 20kW
- Solar power: 1.2kW
- Battery: LiFeYPO4 48V / 700 A40 kW/h, 2000 charging cycles, 15 years
- Cruising speed: 5 kn / Top speed: 8kn
- Range (with sun): 80 nm
- Passengers: 8
- Category: CE-C
- Year of construction: 2019
- Optional:
  - Rangeextender: 3.8 kW
  - Fuel Tank: 52 l



View from the cockpit of Stenella



## Navigation

- Raymarine Axiom+ 7" with GPS and depth gauge
- Compass
- UHF
- Hydraulic control
- Autopilot
- AIS
- Bow thruster



View of the cockpit of Stenella



## Security

- 12 kg anchor | 40m chain
- Electric winch
- 8 life jackets
- Signal rockets
- Tender for 4 persons
- Outboard engine: Torqueedo 1 kW



**View into the cockpit of Stenella**



## Interior design

- 1 cabin for 2 persons with double bed
- Bathroom: Electric toilet, sink and shower.
- lounge in the central part of the boat with direct access through the cockpit
- Kitchen with 2 plate induction stove, refrigerator and sink.
- Bench with table, convertible for additional 2 berths
- AC - DC converter max. 4 kW



**View into the living room of Stenella**



## Interior design



**View into the bedroom of Stenella**



## Exterior



**View from aft to the cockpit of the Stenella**



## Engineering



Cardan shaft with gland



Electric motor 20kW



## Engineering



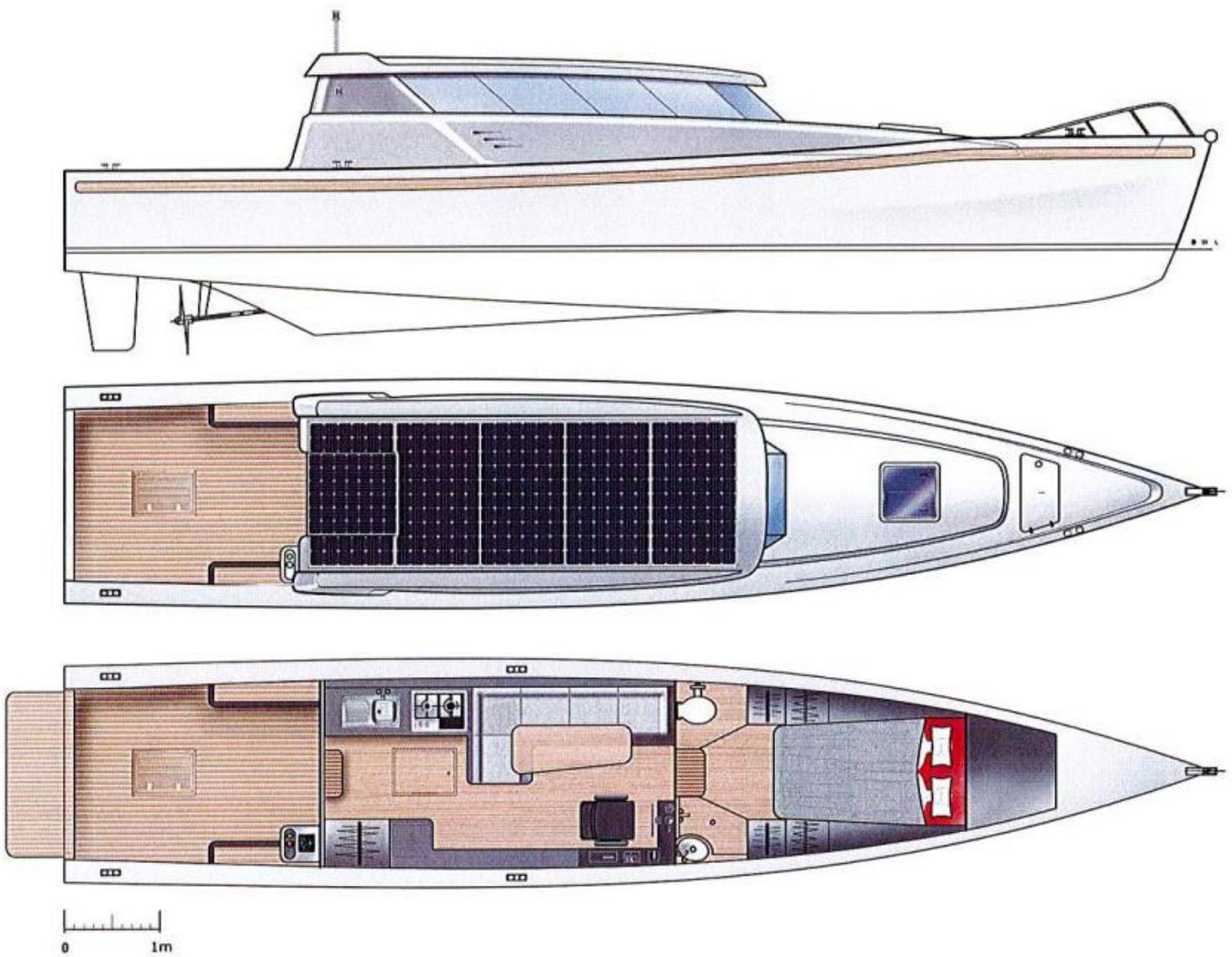
**Battery bank: Thunder Sky Winston LiFeYPO4 battery (16 pcs.) with BMS**



## Plan Details

- 150 l fresh water
- Onboard toilet
- 36l grey water tank
- Two-plate induction stove
- (230V) Refrigerator (230V) Sink

## Layout





## Building material

- Cedar slats
- Sustainable recyclable
- Organic-Composite: Flax fibers combined with organic-epoxy resin
- Video about the construction of Stenella: [https://www.youtube.com/watch?v=dehPGDyQY\\_M](https://www.youtube.com/watch?v=dehPGDyQY_M)



**From computer to cutting robot**

Cutting the 15 sections of pine wood, from 3D designs



**Bio-Composite**

Application of flax fiber impregnated and glued to the hull with epoxy resin.



**Organic epoxy**



**Turning the hull**

Turning of the fuselage with the help of an in-house manufacturing system



**Construction of deck, cabin, interiors**

The exterior of the boat takes shape



**Painting and assembly**

Completion and execution of first navigation tests



## Home port

● Port of El Arenal, Mallorca

● Viewing and test drive by arrangement



**View of the port of El Arenal, Mallorca**



**Freedom is yours**



**Stenella is safe, lightweight, efficient, reliable.**



## Pleasure without a bad conscience



**Stenella is comfortable and environmentally friendly.**