



Technical Specifications

1. Energy supply:

Electricity is generated by solar/light panels. This is stored in batteries (V 280 Ah/ 11 kW), available 24 hours a day for the household and for sailing.

The electrical system is Victron Energy (Dutch), one of the leading companies worldwide, which specializes in 'off-grid' living.

Batteries: Victron Lithium Smart (No risk of fire)

Victron Lithium Battery Smart LiFePO₄ or LFP is the safest of the mainstream Li-ion battery types. The nominal voltage of a LFP cell is 3,2V (lead-acid: 2V/cell). A 24V LFP battery therefore consists of 4 cells connected in series; and a 24V battery consists of 8 cells connected in series.

The boat is powered by two electric motors from Torqeedo and bow and stern thrusters from Vetus. These are particularly useful when maneuvering in ports and when mooring and sailing out.

The heating is provided by electric floor heating. Hot water comes from an electric boiler.

All lighting consists of LED lamps and electrical appliances are A+++.

Backup systems: Shore Power connection is available

2. Blueprint Houseboat

The boat is entirely made of sustainable materials and registered as a CE-D approved vessel.

The boat consists of three long floats made of indestructible High Density Polyethylene. Each 15-meter float consists of 10 separate compartments. The boat therefore floats on 30 separate compartments and is therefore practically unsinkable.

The depth of the floats are only 40 cm under water.

Many of the floats are used for the technical installations of bow and stern thrusters, water tank, black self-cleaning tank, batteries, etc. Four of the spaces are available for storage, All areas can be reached from inside the boat.

A galvanized steel frame is attached to the floats. On top of this is an insulated floor in which the electric underfloor heating is incorporated under the top layer of laminate.

The construction on the frame consists of a skeleton construction with steel beams between which the walls and windows are installed, after which it is covered with an insulated ceiling.

Construction of walls:

Outside: Protex. Guaranteed against salt and UV for 15 years.

Inside: HSB

Wall finish: fiberglass.

The windows have double glass with Argon in between. The frames are composite, aluminum stove enameled.

Roof structure: sandwich panels. Steel and EPS.

Roofing EPDM.

80% of the roof is covered with solar panels. A Starlink satellite antenna is used for fast internet.

All mandatory navigation and anchor lighting is installed.

Four cameras provide a good overview for the helmsman to visualize the blind spots to keep an eye on traffic.

3. Appliances

- Self Cleaning Waste Tank - Enteron (<https://tomlogisch.com/enteron>)

Fully biological mini-wastewater treatment plant for sailing and motor yachts, houseboats and large mobile homes and expedition vehicles.

- Refrigerator and Freezer - A+++
- Dishwasher - A+++
- Washer/Dryer - A+++
- Boiler - A+++
- Induction Cooker
- Airfryer

Summarizing:

The boat has a zero carbon footprint and leaves no waste water in the environment. No gasoline or diesel tanks are on board or any other flammable products. The boat is practically maintenance free due to the use of composite materials.

