

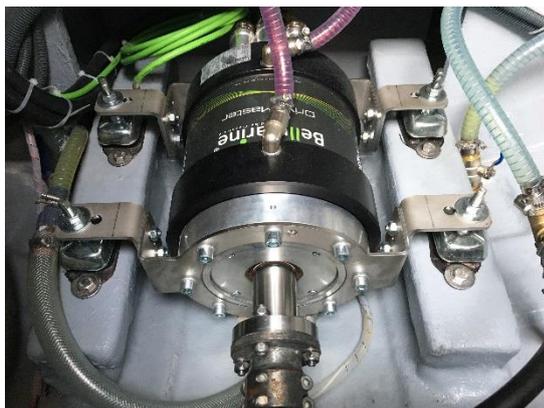
WINDELO CATAMARAN – an eco-friendly navigation and a well-balanced consumption

Thanks to Windelo's electric hybrid drive system, you will be navigating silently even when using the engine. Enjoy the sound of the waves and undisturbed wildlife as you set sail from your dream anchorage to a new destination. No more exhaust fumes and vibrations – sailing is now a really pleasurable clean, environmentally-friendly experience.

An electric drive system supplemented by generators in hybrid mode

The Windelo catamarans are fitted with two 20 kW electric motors and their 1120Ah 48V lithium battery bank (53,8kWh).

Motor: A reliable high-performance electric hybrid drive system



We have worked with a variety of design offices specializing in inboard electric drive systems for Imoca and Ultime racing yachts, with a view to obtaining reliability and reducing weight. Our expert's electric motors are extremely reliable and require little maintenance since they are simply designed with few moving parts. To maintain an optimal temperature and a high performance, these engines are fitted with a cooling system with mixed water intake and heat exchanger with a silent flush under the waterline. These brushless engines

have no wear and tear or need for spare parts (no belts) and with very little maintenance]

With an electric drive, there's no need to warm up the motor. You have full power from the moment you switch it on.

Our catamaran motors have a fixed shaft line due to its excellent output. The shaft line requires very little maintenance and is highly reliable from a mechanical point of view. This is why this technology is widespread on professional craft. It also withstands saltwater environments.

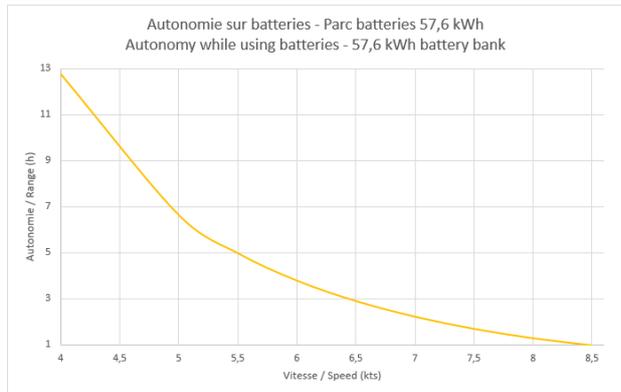
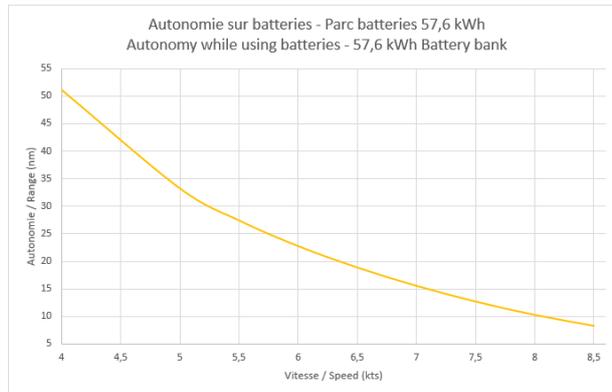
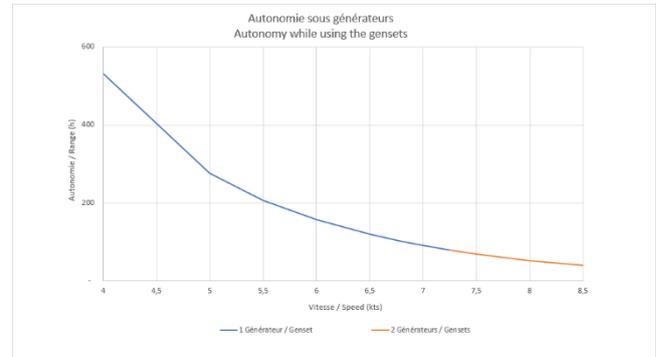
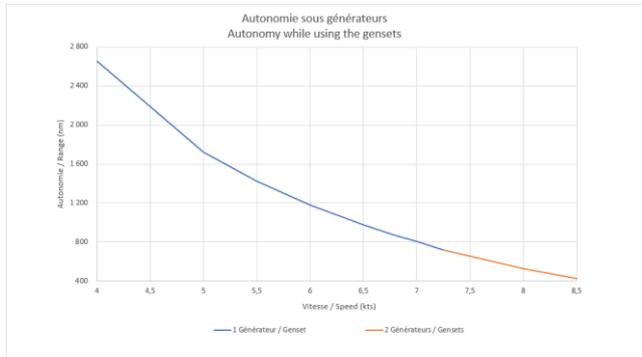
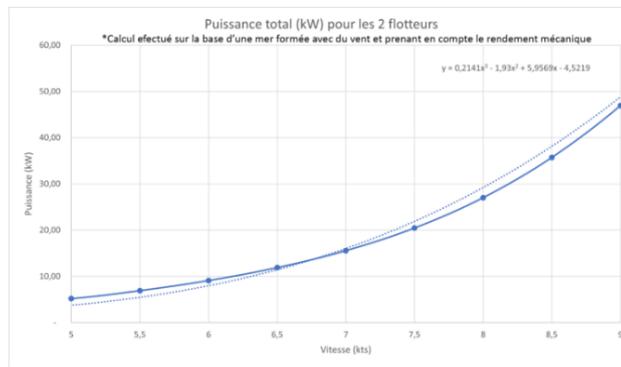
Electric motor with a good cruising range

Our innovative electric motor drive system saves a lot of energy.

Our 1120 Ah 48V battery bank recharges using renewable energy sources first: solar power, hydrogenation, and wind power.

When sailing on the motor, the electrical draw, connected with the power needed to counteract the drag of the hulls, increases exponentially between 6 and 8 knots. At 6 knots, the Windelo 50 consumes 9.09 kW. The electrical draw increases to 15.57 kW at 7 knots, and then to 27 kW at 8 knots.

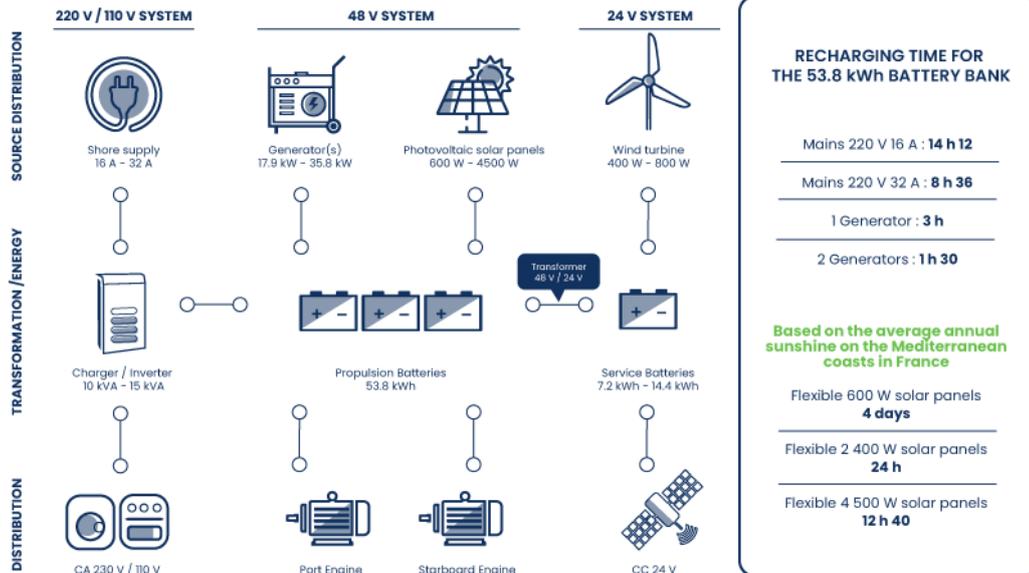
- At 6 knots, the Windelo 50 has a range of nearly 3 hours and 45 minutes and roughly 22.7 nm.
- At 7 knots, the Windelo 50 has a range of nearly 2 hours and 17 minutes and roughly 15.47 nm.



When the energy consumed is not compensated by renewable energies, the 18-kW backup 500 L diesel generator(s) start(s) up to supply the electric motors and recharge the batteries. The generator is in the aft engine bays and communicates with the Boat Management System. It starts up automatically when the batteries are low and/or when the power required is greater than the power the batteries can supply. So, the full cruising range of our catamarans on the motor is 1100 nautical miles. The generator can also be started manually by the skipper in 2 different modes:

- Cruising range mode: for example, the skipper wishes to start his generator to increase his cruising range when there is no wind.
- Recharge mode: the skipper starts his generator, which automatically switches off when the batteries are fully charged.

Windelo catamarans are equipped with a two 20 kW electric engine propulsion system, powered by a 1120 Ah 48 V battery bank



A sustainable sailing due to a performant Boat Management System

Navigation and life on board need a large range of equipment that produce and consume energy (electricity, technical facilities, electronic...). To improve the comfort aboard, Windelo and its partners have developed a software that centralize all the equipment management. Its allow you to have a global vision of your consumption and production of energy. You could for instance check the level charge of your battery bank, when you will need to recharge your battery bank, or if you need to turn off an equipment...



About :

Windelo Catamaran has been based in Canet-en-Roussillon since 2019. It is a recently established boatyard, building comfortable, innovative, high-performance ecological catamarans. After many years of research on eco-friendly materials with the Ecole Nationale des Mines d'Alès and guided by strong family values, Olivier Kauffmann and his son Gautier Kauffmann, who are both passionate about sailing, founded Windelo to build comfortable environmentally-friendly recreational craft.

www.windelo-catamaran.com .

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