

Inspired by Tradition
Powered by Electricity







V/T/

About the Company

Vita Yachts was established in 2017, with the aim of bringing the latest in automotive technology and engineering to the marine world. Our team draws together specialists in F1 and electrical engineering, the superyacht industry, the finance industry, the luxury automotive sector and high-end product design.

About the team

- Team Manager: Stewart Wilkinson
- Pilot: Adrian Gusman
- Liaison: Luisa Bonello
- Head of Power & Performance: Pete McKinlay
- · Reserve pilot: Marco Virgilio
- Technical support: Michele Genovese





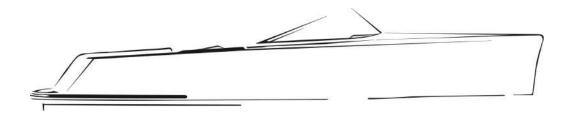


Boat & Propulsion Characteristics

- 2 x UQM Powerphase Pro 220 Electric Motor
 300kW (400bhp) continuous power 440kW (580bhp) peak power, glycol cooled
- 2 x Alamarin AJ245 Water Jets
- 4 x 58.75 kWh (235 kWh) liquid cooled lithium ion battery storage
- 'Fly-by-wire' touchscreen Vita Power proprietary power and control system
- Unique Vita SuperPower marine DC supercharge capabilities – shortest charge time of any boat on the water



Ideas & Inspiration





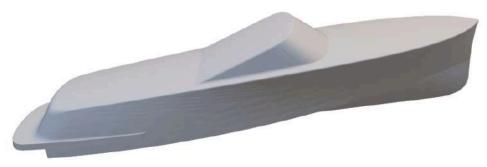




Conception methods, design, optimisation

Guiding principles

- Optimum balance of battery power, battery mass and boat range
- Match motor and impeller characteristics for best efficiency
- Lightweight hull
- High performance cooling system corrosion resistant
- Intuitive control interface
- Solution for fast DC charging
- Parallel port and starboard drive trains redundancy
- Jet drive, reduced draft, manœuvreability at low speeds









Production



Materials:

- Carbon Fibre hull
- GRP-lining for engine room
- Titanium heat exchangers
- · Stainless steel infrastructure
- Lead free anti-fouling



Problems faced:

- Lead times
- Overcoming DC charging protocols
- Weight
- Engine room space



Time of production: 8 months from conception











Cruising speed: ~20 knots @ ~4000 rpm

Top speed: ~40 knots @ ~5500 -6000 rpm

Target Weight: 4 tonnes

Testing & Results



Testing conditions & measurement methods

- Testing conducted on lake and sea across a range of weather conditions
- Onboard logger used to record data from CAN network and some additional analogue sensors in the cooling systems.



Testing areas

- Control system
- Ride stability
- Cooling systems
- NVH (Noise, Vibration and Harshness)







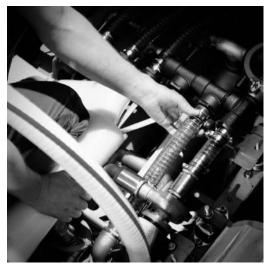
Special Feature(s)

- DC Supercharging Solution Reduced charge time
- Parallel Drivetrain Redundancy Additional safety



Challenge of the Expert

- High efficiency cooling system
 Direct cooling of cells combined with large heat exchangers to minimise cell temperatures
- Noise
 Quiet operation is a defining characteristic of electric drivetrain.











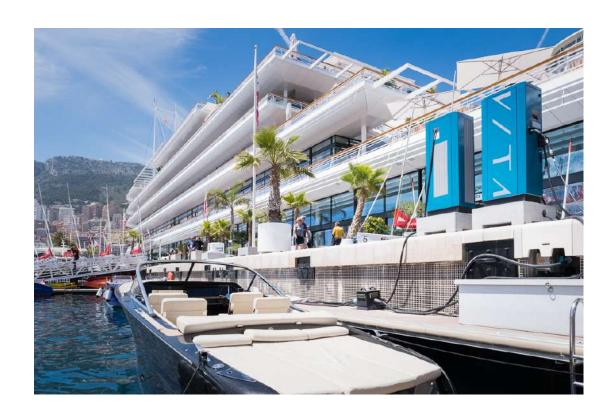
Description

- Vita X now in production
- Vita SuperPower DC charging network increases range by reducing charging times

Implementation

- Vita IX and X on sale and for charter
- Vita SuperPower DC charging solution provided for all boats
- Vita SuperPower charging network initial rollout on French Riviera

Industrialisation of the Project

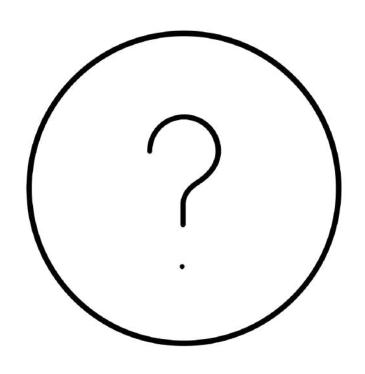








Community Questions



- We are a young independent start-up wanting to revolutionise the leisure and taxi boat markets
- The Vita X is now in production
- Actively hiring programmers and electric power engineers as Vita Power is at the centre of our organisation
- · Internships are available
- · Who is interested?



