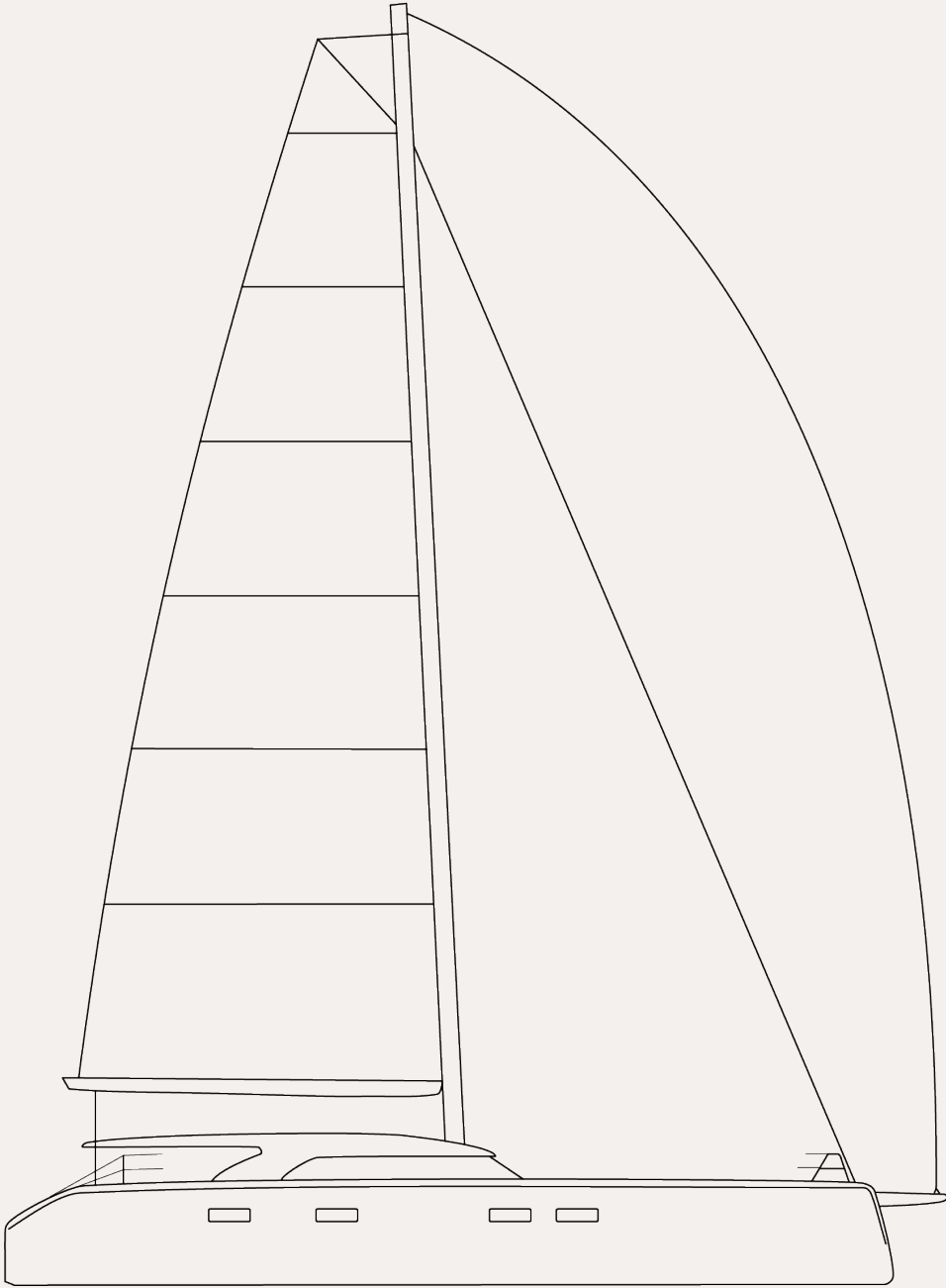


## OE78 SPECIFICATIONS



## DIMENSIONS

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Length overall	23.98 m	78.67'
Length at waterline	23.6 m	77.42'
Beam	11.3 m	37.07'
Draft board down	4.30 m	14.10'
Height of mast from water	32.72 m	107.35'
Main sail area	181.0 m <sup>2</sup>	1948.26 ft <sup>2</sup>
Jib sail area	145.0 m <sup>2</sup>	1560.76 ft <sup>2</sup>
Engine	2 x 150 hp YANMAR	
Fuel capacity	2000 L	528.3 Gal
Water capacity	1200 L	317 Gal
Heated water	2 x 150 L	2 x 38.6 Gal
Classification	CE-Ocean A (DNV-GL)	
Naval architect:	Germán Frers	
Builder:	Ocean Explorer by OQS	

## CONSTRUCTION

The construction of the Ocean Explorer catamarans is made using only premium materials with properties meeting all design criteria for the vessel. All structural parts are checked by third party surveyor in addition to standard practice checks by notified body. This pushes the Ocean Explorer catamarans to a quality and workmanship level in world class.

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### RCD Status:

- Our understanding is that the vessel complied with the European Union Recreational Craft Directive and is Categorised CE- Ocean A
- Original construction in compliance with MCA classifications.

### Hull Construction:

- Vacuum infused, epoxy resin, e-glass, structural bulkheads, and stringers are made in carbon fibre.
- The shroud chainplates are made in carbon fiber and integrated in the hull laminate.
- Hull and deck will be painted with Awlgrip
- White hull in Awlgrip
- White Awlcraft deck
- Boot stripe to be painted
- Antifouling, copper coat applied.

### Deck & Superstructure Construction:

- The deck is vacuum infused, epoxy resin, e-glass and carbon reinforced at high load areas.
- The top deck, saloon made in carbon fibre.
- Fore and aft deck painted with non-skid surface, white colour
- Aft cockpit and stairs to upper deck and down in transom made in Flexiteek
- The deckhouse structural frame made of carbon fibre.
- Laminated/tempered glass all around
- On the roof side stainless steel grab rails are installed for safety.
- Anti-slip surface paint on appropriate places.

- Openable front glass (hatch in glass) forward for natural ventilation.
- Steps for easy access to roof installed
- Aft Cockpit floor painted with antiskid surface

### **Daggerboards & Rudders:**

- Carbon fibre curved asymmetric daggerboards "C foils" raising and lowering with push buttons from helm station.
- Rudders made of glass fibre
- Minimum draft of rudders – 1.80m

## **MACHINERY**

The machinery and propulsion solutions are designed for best usage and optimized for this vessel. All design is based on useability and comfort. But to meet all possible requirements there is a great variety of options and customisations that can be incorporated to an Ocean Explorer Catamaran.

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### **Drive Units:**

- Standard Yanmar diesel engines 2x 180hp with alternators on both engines
- Drive Units for electrical propulsion:
- 2x Torqeedo 'Deep Blue' 100 kW inboard drive motor, 900 rpm with 3 x System Management Units located in machinery spaces to aft of each hull.
- 2x Electronic Throttle with 7" System Control Displays, Data cable, HV power cable & Thrust Bearing.
- The machinery space is insulated with fire retardant insulation materials forward for noise control to ensure a quiet yacht.
- Electrical system used in conjunction with 20+m2 of solar panels on the roof, hydrogenation with the electrical motors and a battery bank optimized to meet world cruising demands while maintaining a light displacement for improved vessel performance.

**Propulsion & Steering:**

- Bruntons feathering propellers
- Electric Hydraulic steering system.
- Twin carbon fibre helm wheels

**ELECTRICAL SYSTEMS**

The electrical systems are designed and installed for easy maintenance and easy use. With an industrial level automation system as standard on the vessels the boat will be state of the art in all aspects also giving endless possibilities for development of the systems.

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**Voltage systems:**

- 24vDC domestic system 220vAC system via shorepower or inverter
- Advanced DB Hybrid Management System
- 12" System Control Screen

**Battery Banks:**

- 4x HV DC Battery new generation 40kWh - BMW i3 including mounting frames, venting system
- 2x 24vDC Power 26 Lithium batteries
- 12vDC generator starter batteries

**Battery Charger:**

- 4x HV 3kw AC battery chargers
- 2.8kw DC-DC converters

**Inverter:**

- 6kw DC-AC inverter

**Generators:**

- 2x 25kw DC Converter Generators

- Racor double filters for generators. With fuel feed pumps.

### **Solar (Option):**

- Solar panels on roof, total area 20 m<sup>2</sup> of the most efficient panels currently available
- 3kw Solar charge regulator

### **Hydrogeneration (Option for Electric motor):**

- Hydrogeneration with the electrical motors and a battery bank optimized to meet world cruising demands while maintaining a light displacement for improved vessel performance.

### **Shorepower:**

- Shorepower 220 V 50- 60 hz
- 220vAC sockets throughout interior

## **PLUMBING & GAS SYSTEMS**

The plumbing systems onboard are designed to keep the maintenance and usage of the boat care free, however when there are challenges, main systems trouble shooting and maintenance are supported by the automation system of the boat.

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### **Fresh Water:**

- Fresh water pressurised by 24vDC centrifugal pressure pumps with accumulator tank
- Hot water supplied by engine driven calorifier in Isotemp 150 litre hot water tanks with 220vAC immersion heater elements

### **Bilge Pumps:**

- Each hull is divided into separate flooding sections, each section with own 24vDC bilge pumps.
- All bilge pumps have external sensors.

## TANKAGE

Dimensioning of tanks and systems are configured so the boat easily can handle owners and guests for long periods away from shore.

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### Fuel:

- 1600 litres of generator diesel fuel capacity in 2 tanks with transfer between hulls with electrical pump

### Fresh Water:

- 860 litres of fresh water capacity in 2x 430 litre plastic tanks with transfer between hulls with electrical pump

### Holding Tanks:

- 2x 300 litre blackwater holding tanks discharging overboard or via deck extraction points

## NAVIGATION & COMMUNICATION EQUIPMENT

The team at OQS will together with the buyer go through the best option for navigation and communications equipment depending on the intended use of the yacht.

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## DOMESTIC EQUIPMENT

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### Galley:

- Isotherm icemaker
- Gas stove and oven
- Miele Dishwasher

- Isotherm DR190 fridge
- Frigonautica FR130 fridge

**Heads:**

- 6x Sanimarin 24vDC combined toilets with bidet function
- 6x showers with hot & cold pressurised supply

**Heating & Ventilation:**

- Forced fresh air ventilation in all cabins
- Additional ventilation provided via hatches and doors.

**Entertainment:**

- TV in saloon
- Fusion Hi-Fi System

## ACCOMMODATION

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**Summary of Accommodation:**

- The contemporary styling with clean lines and sleek deckhouse design, allow for panoramic views without compromising on the look of the yacht.
- The interior layout of the OE78 is second to none, with the ingenious use of space to optimise the functionality, while retaining the elegance and spacious feel.
- Her two guest cabins are all ensuite, with large double beds, all ensuite, with the owner's cabin taking up the majority of the starboard hull, plus a further double crew cabin (or occasional guest cabin in the forward section of the starboard hull).

**Accommodation Finish:**

- Oak interior glued onto divinycel core
- Cabin doors with magnetic door holders from Foresti & Suardi
- Door handles for cabin doors Onmar Moder McCoy Square Frost



### **Accommodation layout from Forward:**

#### Forward Guest Cabin Port:

- Double bed
- Hanging locker with drawers
- Openable portlight outboard
- Ensuite including head and shower

#### Forward Cabin starboard (Crew Cabin)

- Crew cabin moved forward to allow for extra space in owners suite
- Separate stairs
- Double bed
- Storage under the bed and hanging locker
- Ensuite
- Laundry machine in cabin

#### Aft Guest Cabin Port:

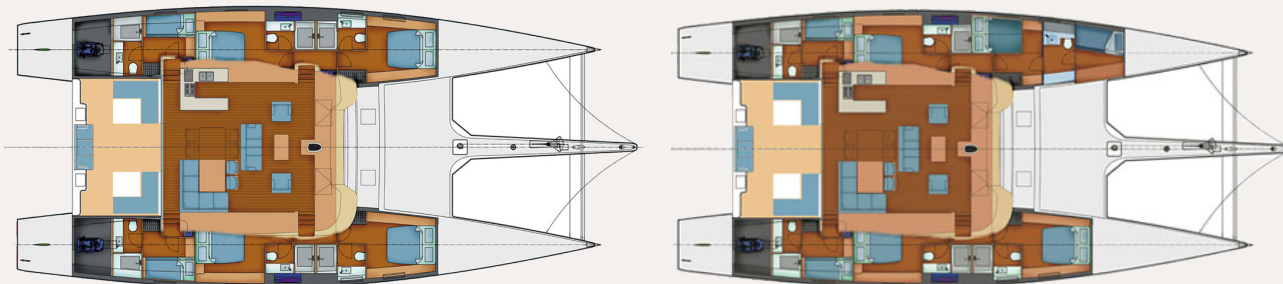
- Ensuite including head and shower
- Hanging lockers and storage
- Sleeping area includes two beds that can be joined together to form a double bed.
- Pullman bed

#### Aft Owner's Cabin Starboard:

- Private entrance to Suite
- Hanging lockers and storage space
- Queen size double bed
- Ensuite
- Two portlights with openable windows outboard integrated in windows

#### Saloon

- Galley to sb aft side, kitchen island placement towards centre alongside
- Sofa portside forward



## DECK EQUIPMENT

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### Rig:

- Lorima white painted carbon fibre mast – 32.72m air-draft
- Lorima white painted V-profile carbon fibre boom
- Structural carbon composite front cross beam moulded with the hulls and deck
- Carbon fibre articulated bowsprit with carbon bobstay
- Lazyjacks for mainsail
- Harken mainsail track with low-friction battencar system
- Harken carbon manual genoa and self-tacking jib furlers
- Harken self-tacking jib track
- Harken deck gear
- Spinlock jammers
- All sail handling including sheets and halyard lines go aft to the helm stations
- Traveller on roof, hydraulic.

### Winches:

- Harken 990.3 ST FD AAA 24V HOIR + DFCB
- Harken 990.3 ST FD AAA CR 24V HOIR + DFCB COUNTER ROTATING
- Harken 990.2 ST FD AAA 24V HOIR + DFCB
- Harken 990.2 ST FD AAA CR 24V HOIR + DFCB COUNTER ROTATING
- 2x Harken 80.3 STEP EL 24V HO DFCB included
- Harken 65.3 STREL 24 V +DFCB

**Sails:**

- Square top, full battened Mainsail
- Self tacking Jib

**General:**

- Armstrong boarding ladders on each side in transom.
- Two hatches forward for access to sail storage.
- One hatch with glass for access to workshop Seasmart.
- Four hatches to access equipment and storage in front of the deckhouse.
- One deck hatch to the crew cabin fwd. SB side.
- Deck hatch installed to the owner's cabin and guest cabin aft in port side.
- One hatch each side to access generator and motor compartment aft in the boat.
- Several smaller hatches for storage and inspection hatches for equipment.
- Seating position integrated in the pushpit forward, seating for 2 persons.
- Two hatches in the deckhouse
- One hatch each side to access compartment aft of engine room.
- Pushpit and pulpits are made of stainless steel and mounted on bow and transom.
- Navigation lights (LED) installed in the push and pullpits.
- Stainless steel stanchions with triple lifelines.
- Custom cleats for mooring in aft coaming.
- Underwater lights

**Aft Cockpit Arrangement:**

- Large dining area on SB side. Relaxing sun bed area on port side.
- Curtesy lighting installed in cockpit and aft area including stairs down. Led strip in all steps and double downlights small led on lower steps, single on upper steps.
- Sunbathing area, square with storage compartment underneath.
- The aft end of the cockpit with sofa.
- Hatch in floor made for storage.
- Carbon fibre cockpit table
- Access to the steering system from the back side of the aft coaming.

## **Anchoring & Mooring:**

- Lofrans 3,500w Ercole 24vDC electric windlass with remote control at starboard helm
- 68kg anchor with 80m of 12mm chain
- Custom chain lock
- Secondary anchor with chain and warp
- Warps and fenders
- Pop-up mooring cleats
- 2x Harken CLR mooring winch Horizontal 24V + DFCB