



HORIZON SC46 SOLAR CATAMARAN

2010 Standard Specifications (All Regions) Annex A

Valid date: May, 2010

Principal dimensions (approximate):

L.O.A.	: 46' -4"	(14.12 M)
L.W.L.	: 44' -2"	(13.46 M)
Beam	: 16' -5"	(5.00 M)
Draft (prop. tip clearance)	: 3' -11"	(1.20 M)
Height (W.L. to top of arch)	: 10' -6"	(3.20 M)
Displacement (light approx.)	: 46,200 lbs	(21 tons)
Fresh Water	: 105 US gallons	(400 litres)

A. Hull and Main Structure:

1. White Gelcoat finish.
2. One-piece hull lamination.
3. Hull, Deck & superstructure are built with licensed process SCRIMP™ for improved strength and less weight
4. Fiberglass solid hull bottom.
5. High-density foam cored construction above water line.
6. Stringers with high density foam coring.
7. Foam cored reinforcement for strength.
8. Interior structural components all properly bonded to hull.
9. Strong collision bulkhead structure for extra safety.
10. INTERNATIONAL brand anti-fouling bottom paint, w/ anti-osmosis treatment.

B. Exterior Deck and Equipment:

1. Nonskid deck.
2. One stainless steel 35 lb anchors.
3. Stainless steel rollers and chain stopper.
4. Heavy-duty 316# stainless steel cleats and fairlead w/rollers..
5. High bulwark w/ flush mounted deck lights,
6. 2 FRP bulwark side doors, wheel access possible.
7. Heavy-duty S/S 1-1/2" handrail w/1-1/4" stanchions.
8. Stainless flag pole.



9. Sunbathing cushion on fwd deck w/drink holders.
10. Frameless windows tinted tempered glass 8 mm for windshield & side windows.
11. Big sliding door for main salon, self locking.
12. One deckhouse side entrance door at starboard side.
13. After deck dining table (fiberglass or teak).
14. S/S supporting pillars 2" on after deck.
15. Built-in shower above swim platform.
16. Swimming ladder in storage well.
17. Rub rail around upper hull side.
18. Exterior LED step lights.
19. Two round hatches at fwd deck.

Options

23. Teak deck on side walkway and foredeck.
24. Boat name with lights on stern.
25. Fenders and ropes.

D. Pilot house and instrument:

1. One two-seated helm chair.
2. Instrument console with leather covering.
3. Heavy-duty SPEICH Stainless steel wipers w/wiper washer system.
4. Drive control panels for both motors.
5. Battery monitor to record charging/discharging current and remaining capacity.
6. Monitoring system for important equipment (bilge pumps, blowers, nav. Lts.).
7. DANFORTH or equivalent magnetic compass at helm.
8. International navigation lights.
9. Fuel and water electrical level gauges.
10. ELBEX closed circuit T.V. monitor with 2 cameras (aft deck and engine room)
11. All other navigational equipment, an owner supplied option from approval supplier only.

D. Engine propulsion & Steering system:

1. Twin Fischer Panda 48V 10kW electric motors, or equivalent.
2. Stainless steel shafts SUS316 or equivalent.
3. High performance 4 blade propellers.
4. Bronze struts w/backing plates.
5. Shaft and rudder packing glands with maintenance free TIDES-MARINE seals.
6. Fischer Panda motor control lever, or equivalent.
7. Second control station (motors) on aft deck. (In accordance with layout)
8. HYNAUTIC manual hydraulic steering system.



9. Stainless steel rudder w/zinc plates.
10. Custom steering wheel.
11. Blowers in engine rooms for ventilation.

F. Electrical systems:

1. Twenty-two (22) Salon Back 280/10 or equivalent solar panels providing 6kW solar power.
2. Two (2) shore power plugs 16A at each side of aft deck.
3. Colour-coded wiring for easy identification.
4. Two (2) Xantrex 60A MPPT solar charge controllers or equivalent.
5. Two (2) Inverter/Charger XANTREX 4.5kW/48V or equivalent.
6. GUEST battery switch (vapour proof).
7. Sixteen (16) 270 AH AGM batteries for ship's propulsion power.
8. Four (4) 270 AH AGM batteries for ship's service power.
9. All batteries enclosed with boxes and cover.
10. Main electric panel includes AC & DC circuit breakers.
11. 24 volt DC monitoring and main circuit breaker panel.
12. Italian VIMAR switches for lighting system
13. GFI protection for AC required outlets.
14. Indirect lighting under valance in saloon, staterooms, pilothouse and galley.
15. Electrolysis bonding system.
16. Cathodic protection with zinc anodes for shafts, struts, etc.

Options

17. Fischer Panda AGT-4000 DC 48V generator.
18. Fiberglass water/exhaust separator for generator.
19. Separate 55 AH starting battery for generator.
20. 150L aluminium fuel tank in engine room for generator.
21. A30 grade fire insulation in engine room for generator.

G. Mechanical systems:

Fresh water system

1. 400 litre water tanks.
2. High-volume DC fresh water pressure pump.
3. Fresh water Charcoal filters in main supply pipe and in galley.
4. Marine grade lines for fresh water system.
5. One instant heat water heater for showering.

Options

6. Water Maker Desolator D60 24V 60 L/hour



Sanitary system

7. SEALAND toilet system or equivalent.(1 Toilets)
8. 400 litre holding tank w/macerator pump.
9. "Y" valve for holding tank with deck fitting for dockside pump out.
10. Sump pumps system for grey water.
11. Electrical level indicators for holding tank.

Bilge water system

12. Four electric RULE bilge pumps.
13. Two manual bilge pumps in port and starboard cabins.
14. High water level bilge alarm.
15. Bilge exhausts ventilation fans.

Fire safety system

16. 3 portable fire extinguishers in recessed lockers.
17. Heat detector or smoke detector in each cabin.

Options

18. Fire blanket in galley
19. Integrated fire detecting system.

H. Interior design and equipments:

(As per layout plan)

Interior decoration

1. Semi-gloss wood finish on vertical and horizontal surfaces (Standard Cherry wood knot/Macore/ Bird's eye maple/ walnut)
2. Interlocking vinyl-ceiling panels throughout.
3. Corian counter top in galley.
4. Carpet (local supply) floor thru boat
5. Italian High-quality door lock and cabinet door locks.
6. Leather saloon and dinette sofa.
7. High-density foam mattress with custom bedding covers.
8. King size bed in master stateroom.
9. One guest stateroom, expandable bed.
10. Leather bed headboard Master only
11. Wood bed frames in all cabins
12. Hanging locker cabinets in all staterooms.



13. LED ceiling lighting.
14. LED rope lights for safety step lights
15. LED rope lights under sofas, beds, valances, per layout design.
16. Corian counter top and back splash in all heads.
17. Corian floors in all heads.
18. Seamless polyurethane finish in all shower stalls.
19. Towel bars, rings, cup holders, brush, etc. for all heads.
20. Exhaust blower for each head.
21. Inlaid sink with curved wood face for each head.

Options

22. Soft close drawer runners.
23. Fabrics for curtains, bed cover, cushion.

Home appliances

24. Stainless steel sinks.
25. Siemens counter refrigerator and freezer.
26. Two hubs electric cook top.
27. Dishwasher.
28. Full size microwave with exhaust fan.

Telephone and Stereo System

29. TV cabinet in master stateroom and saloon.
30. 32" flat TV with separate DVD player in saloon
31. 19" TV with DC12V DVD car stereo for master cabin.
32. Exterior connector for shore cable TV.
33. Intercom system.

**** All specifications subject to change without notice ****

The end

Not included are pieces of free standing furniture and lamps, special designer specified lighting, art work, cooking utensils, cutlery and flatware, soft goods and the design fees attendant to personalizing the Owners interior arrangement plan and design.

Qualifications and Notice to Reader

Performance statistics, weight, draft, freeboard and height are estimated only and are not warranted, and actual figures will vary depending on tolerances achieved during the vessel's construction process and the equipment, supplies and stores on board, as well as operational and sea conditions. Horizon reserves the right to substitute equipment and materials stated herein to others which it believes to be of equal or superior quality and to make such design and dimensional changes as it believes are necessary to improve the vessel's performance and function.