



Technical Specifications

SUNPOWER SOLAR-E 40 (Charter)





General Information

The following technical specifications ("Specifications") describe in detail the technical elements of the construction of the SUNPOWER-ALVA-SOLAR-E 40 - Charter.

1. Sunpower Yachts Solar Electric 40

2. Construction

Day charter Open Deck center console helm with hard top (clears option)

b. 37 Passenger, 3 Crew

c. Fully molded and vacuum-infused FRP

d. Vinyl ester resin system, PVC cored, Gelcoat finish

e. ISO Standard 1227 structural design

3. Specification

- **Length overall:** 12.0m (40')
- **LOA with Pod:** 12.85m (42.5')
- **Beam overall:** 6.050m
- **Draft (Light ship):** 550mm
- **Bridge deck clearance (Light ship):** 0.700m
- **Air draft overall height from DWL (Light ship):** 6.700m
- **Displacement (Light ship):** 7,000 Kg
- **Full load displacement:** 12,000 Kg
- **Passenger Load:** 44 (3,300 Kg)
- **Fuel tank capacity:** 2 x 400L = 800L
- **Water capacity:** 2 x 300L = 600L
- **Holding tank capacity:** 2 x 180L = 360L
- **Motors (x2) Option:** 15HP/11Kw - 135kw/180HP
- **Top speed (approx.):** 20-25knots
- **General cruise speed:** 6-20knots
- **Solar Power:** 6kw



4. General Interior Finish

- a. Flow coat interior finish, roller coat
- b. Composite Gelcoat finish doors
- c. Interior floor: Sprayed non-slip surface

5. Galley

- a. 2 x 110L under-counter fridges
- b. Stainless steel galley sink
- c. Under-counter cabinets

6. FWD Crew Cabins P & STB Change Room

- a. Single-size crew bed
- b. Light fairing primer and gloss topcoat roller finish
- c. Mattress: 100mm medium foam with cover

7. Mid Head P & STB Change Room

- a. Wet head shower & hand basin with H/C mixer, sump to holding tank, freshwater toilet
- b. White gelcoat finish
- c. Teak seating grate

8. Engines and Machinery

- a. Outboard e-motors (15-180hp)
- b. Electric or hydraulic steering (supplied with engines)
- c. Option: Panda Neo 5000 Genset
- e. Option: 1 x 400L diesel fuel tank with Genset

9. Deck & Fittings

- a. White non-slip finish throughout
- b. 2 x fuel fillers, 2 x freshwater fillers, 2 x waste tank fittings
- c. 32mm 316 Stainless Steel Handrails (750mm high) with 4mm stainless intermediate lifelines
- d. Nylon bow roller with 316 stainless steel mooring bollard
- e. 4 x Vetus Flush hatches
- f. 6 x 300mm mooring cleats
- g. Side windows: Grey tint toughened glass



10. Anchoring

- a. Muir Windlass VR2500
- b. 1 x 45kg galvanized anchor with 50m x 10mm G43 gal chain
- c. 3 x Mooring lines (18mm)
- d. 3 x Fenders (900 x 30)

11. Cockpit/Aft Deck

- a. White non-slip painted deck
- b. Full-width aft settee (Sunbrella Fabric or equivalent)
- c. Ice chest (x2)
- d. BBQ power connection
- e. Transom shower with hot & cold water
- g. Deck drain sump in place of step at door
- h. Composite davits with lifting tackle (max 3m tender, 15hp outboard, 100kg load)

12. Electrical – As per drawing

- a. House Batteries: 880Ah (4 x AGM 220Ah/hr or equivalent)
- b. Engine start Batteries (2 x t AGM 130A/hr or equivalent)
- c. Genset Option: Panda Neo 5000 or Whisper Gen 6kVA (27A)
- d. DC System: 12V standard DC system (BEP switch panels)
- e. AC System: 220V 50Hz VAC System (BEP switch panels)
- f. Inverter/Charger Option: 1 x 12/3000 - 100
- g. Air Conditioning Option: Fwd cabins, Pure Mind Reverse Cycle (2 x 5000 BTU)
- h. Lighting: LED navigation lights, LED interior (24), deck (8), fore/aft floodlights (4)
- i. Electrical Sockets: 4 x power points
- j. Underwater Lights (Option): 4-6
- k. Shore Power: 1 x 15A power inlet (port side) with isolators & RCDs
- l. Wiring Specification: AS 3000 marine grade tinned wire (Tricab)

13. Plumbing

- a. Plumbing System: John Guest quick-connect system
- b. Galley Sink & Taps
- c. Hand Basin & Shower (P & STB)
- d. Freshwater Pumps: 2 x 12V Whale pressure pumps
- e. Hot Water with Genset (Option): 1 x Quick 60L 220V



- f. Holding Tanks: 2 x 180L with manual shut-off (one per hull with deck pump-out)
- g. Bilge Pumps: 2 x 750GPH per hull, 4 x electric auto/manual with float switches & non-return valves
- h. Toilets: TMC or Jabsco (x2) low-profile

14. Options

- a. Cookout BBQ Classic Electric: USD 1,800
- b. Inverter Charger 3500W: USD 3,500
- c. Chain Counter: USD 1,200
- d. Main Deck Clears: USD 7,500
- e. Sound System (Fusion or Hertz, single zone): USD 2,800
- f. Microwave: USD 600
- g. Genset Option (6kVA-8kVA): USD 19,500
- h. Lifting Platform: USD 12,800

15. Motor Options

- a. Twin 15HP/11Kw – 48v System (included)
- b. Twin 135kw/180HP – HV 650v System (optional Upgrade)

- (a) Electronic twin motor controls

16. Batterys Options

- a. 40kw
- b. 60kw

16. Fresh Water System

- (a) Fresh water tank 2x 300 L with manhole
- (b) Water pump + filter
- (c) Water pressure system
- (d) Electric water heater
- (e) Shower mixer tap with shower head



- (f) 1 x transom shower
- (g) Acrylic worktop sink for galley
- (h) Sink bathrooms, top mounted,
- (i) Taps at bathrooms
- (j) Shower drains at bathrooms hidden under acrylic / stone cover
- (k) Deck filler for water
- (l) Tank ventilation and filters
- (m) Hose clamps Stainless steel, for pressurized water, fuel, blackwater

8.2 Grey and Sewage Water System

- (a) 2 x ca. 180 liters grey water tanks, 2x ca. 180 liters black water tanks manhole with aluminum lid, level sensor
- (b) 4 x self-priming 24V pump for automatic or manual tank discharge
- (c) 3-way valve for deck discharge
- (d) Deck fitting waste water for discharge
- (e) Grey/ Black water system connecting tank with toilets, wash basins, sinks, showers, dishwasher and washing machine
- (f) Shower drain kit
- (g) Anti-odor charcoal filter on tank vents

9 Bilge System

- (a) Self-priming electric bilge pump units at hulls
- (b) Bilge alarms
- (c) Manual bilge pump at stern cockpit
- (d) Hull fittings with composite ball valves



- (e) Control panel at salon helm

10 Firefighting and Fire Protection Systems

- (a) Fixed automatic fire extinguisher: 1x generator, 1x battery compartment
- (b) Fuel shut-off remote control at helm station
- (c) Fire extinguishers in each cabin and salon
- (d) Fire detection units in each cabin and salon
- (e) Fire blanket for galley

11 Steering System

- (a) Rudder shaft stainless steel massive stock
- (b) Lower and upper rudder bearing
- (c) Shaft sealing
- (d) Rudder tube
- (e) Steering pumps on fly helm and salon helm
- (f) Steering pump flange
- (g) Venting valve for steering pump
- (h) Balance valves with bypass function
- (i) Hydraulic rudder cylinders
- (j) Steering wheels
- (k) Hydraulic tubes
- (l) Hydraulic tube support sleeve
- (m) Stainless steel rudder arm and components



12 Grounding Systems

4-6 Grounding plates for AC and DC systems and lightning protection

13 Fuel and Oil Systems (Extra Option ONLY)

- (a) Fuel deck fill station molded in superstructure, covered with a lid
- (b) Fuel tanks Stainless steel, manhole: ca. 2 x 400 Liters (optional 2x 400 ltr.) with inspection tubes at tank
- (c) Ventilation pipes with odor filter
- (d) Fuel manifold valve
- (e) Diesel pre-filters and generator filter
- (f) Fuel transfer pump with filter
- (g) Electronic level gauge at main dashboard and at deck fill station
- (h) Fuel hose for marine fuel
- (i) Double hose clamps Stainless steel

14 Deck Hardware

- (a) Fender profile for hull outside and platform
- (b) Anchor bow roller with secure pin
- (c) Padeyes for anchor bridle
- (d) Cleats main deck in Stainless steel
- (e) Anti-chafing-protection plate Stainless steel
- (f) Retractable cleats at aft platform
- (g) Deck fully covered with artificial teak



SUNPOWER YACHTS INTERNATIONAL Pty Ltd | ACN: 645 611 061 | ABN: 54 663 500 552 |

| Phone 0479 149 736 | Inter +61 479 149 736 |

| PO Box 803 Broadbeach Qld 4218 Australia |

| Suite 5 / 46 Cavill Avenue, Surfers Paradise Qld 4217 |

| admin@sunpoweryachts.com.au | www.sunpoweryachts.com.au |

HEADQUARTERS

AUSTRALIA | GERMANY | EUROPE | DUBAI | USA | MONACO

GO TO CONTACT US AT SUNPOWER YACHTS