



Available to Order

2026 Sunpower Yachts Alva Solar-E 90

90' (27.43) 2026 Sunpower Yachts Alva Solar-E 90

West Palm Beach United States



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OVERVIEW

Manufacturer:	Sunpower Yachts	Hull Material:	Fiberglass
Engines:	—	Cruise Speed:	—
Engine Model:	—	Max Speed:	—
Engine HP:	—	Cabins / Heads:	—
Beam:	46	Fuel Type:	—
Max Draft:	4	Fuel:	—
Water:	—		

Data Sheet

Category:	Crew Cabins:	Displacement:
Subcategory:	Captain's Quarters:	Fuel Tank:
Condition: New	Crew Sleeps:	Fresh Water:
Model Year: 2026	Maximum Speed:	Holding Tank:
Beam: 46	Cruise Speed:	Imported:
Max Draft: 4	Range NM:	Builder: Sunpower Yachts
LOA: 90	Fuel Type:	Exterior Color:
Cabins:	Hull Material: Fiberglass	HIN / IMO:
Sleeps:	Hull Shape:	In Stock:
Single Berths:	Hull Finish:	
Double Berths:	Factory Demo:	
Queen Berths:	Air Conditioning:	
King Berths:	Bridge Clearance:	
Heads:	Max Passengers:	

Engines / Generators

Engine 1

Engine 2

HP
Fuel:
Location:

HP
Fuel:
Location:

Generator 1 KW hrs

Generator 2 KW hrs

Summary / Description

Sunpower Alva Solar E-90 2026

Sunpower-ALVA Solar-e 90 – Award-Winning Innovation, Powered by the Sun

Step aboard the **Sunpower-ALVA 90**, an **award-winning** flagship of solar-electric innovation — a superyacht that represents the pinnacle of sustainable luxury. Purpose-built for those who seek grandeur without compromise, the **Sunpower 90** offers a yachting experience that is as revolutionary as it is refined. With its commanding presence and industry-leading technology, this vessel is setting a new global standard in the world of clean, conscious cruising.

At **90 feet in length**, this solar-electric catamaran is in a class of its own. Every detail has been meticulously crafted for maximum efficiency, elegance, and onboard luxury. With its wide beam and sleek silhouette, the **Sunpower-ALVA 90** offers expansive living areas — indoors and out — all powered silently by an advanced solar energy system paired with cutting-edge electric propulsion.

The interior is a sanctuary of modern design and intelligent space. The vast open-plan saloon flows effortlessly into the aft deck, creating an ideal environment for lavish entertaining, gourmet dining, or simply indulging in peace and privacy. Floor-to-ceiling windows and skylights illuminate the interior with natural light, while fully customizable layouts cater to full-time living, elite charters, or extended global cruising.

Above, the **flybridge** is a true showpiece — a floating rooftop retreat with options for a spa pool, cocktail bar, dining area, sun loungers, and helm station, all offering sweeping 360° views. Forward, the bow lounge provides an intimate escape for sunbathing, evening cocktails, or quiet reflection with the horizon ahead. The **hydraulic swim platform** offers direct access to the ocean, your tender, or a fleet of water toys.

This **award-winning** vessel is not only beautiful — it's a breakthrough in responsible innovation. With **zero emissions, ultra-low maintenance, and complete energy independence**, the **Sunpower-ALVA 90** invites you to explore the world in absolute freedom and silence — from the Mediterranean to the Maldives, the Caribbean to the South Pacific.

This is more than a superyacht.

This is the future of yachting. This is Sunpower living — where vision meets victory, and every voyage is powered by the sun.

News flash! Hull #1 of the 90 series is launching in Turkey this summer. It will then head to Cyprus with the new Owner. Hull # 2 is in production in Turkey and awaiting input from a new Owner....are you the one ? Step up and dial it in,,,*your way !*

For detailed information, or to start developing specifications for your Alva Solar E 90 contact your Listing Broker

Technology:

- Range: Trans-Atlantic without charging
- SOLAR POWER: 200m² solar surface 40 kWp

Engine:

- Full Electric Version: OCEAN ECO 90f -EL Up to 2x 500 kW (670 hp) gearless electric drive & 2x 100 kVA DC- Generator, Hydrogen Fuel cell with Hydrogen storage tanks as an option
- Hybrid Diesel-Electric Version: OCEAN ECO 90f-HY2x 250 kW (335hp) gearless electric drive & 2x 456 KW diesel engine, gearbox, clutch, common shaft – with 5 different drive modes
- Cruising Speed: 8-10 kn, Top Speed 15-16 kn
- Solar Input: 40 kWp , with „ Solar Roof“ glass tiles
- Battery capacity: 240 kWh – 360 kWh
- Fuel: 1.500 Ltr / 396 US gal.- 5.000 Ltr / 1.320 US gal.

Specification

- Fresh Water: 1.500 Ltr / 396 US gal.- 3.000 Ltr / 793 US gal.
- Water Maker: 280 Ltr/h – 74 US gal./h
- Hot Water: 200 Ltr / 53 US gal.
- Grey water: 2x 200 Ltr / 2x53 US gal.
- Black Water: 2x 200 Ltr / 2x53 US gal.
- Shore power: 32 Amp
- Air-Conditioning: 35 kW / 120.000 BTU frequency driven compressor chilled/ warm – water, reversed cycle system, super-silent fan coils Wastewater Treatment System available
- Classification: German Lloyd / private Yacht

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