



# The Independence 60

The Independence 60 is a whole new type of motor yacht that completely eliminates the use of any fossil fuels yet provides all of the creature comforts normally available on a conventionally power yacht.





# The Independence-60



The world's first completely sustainable, no-compromise, solar powered, hydrogen fueled, 100% electric, luxury motor yacht

## Summary Specifications

Length Over All:	59'-5"	Length at Water Line:	53.0'
Beam:	14.0'	Beam at Water Line:	12.36'
Displacement:	61,000 lbs.	Draft:	3'-10"



Solar PV roofs removed for clarity

The **I-60** is a *totally green* luxury displacement vessel with 3 staterooms and all the amenities. It's constructed of recyclable aluminum and operates using *zero* fossil fuels resulting in *zero* emissions. Environmentally sustainable materials are used where available.

The **I-60** is designed to provide efficient cruising speed via solar energy through its electric motor

propulsion. The system consists of roof mounted photovoltaic cells, a hydrogen generator, fuel storage, fuel cell, battery bank and inverters to convert from DC to AC power – everything needed for propulsion and ship's support (refrigeration, lighting, and entertainment). See page 4 for details.

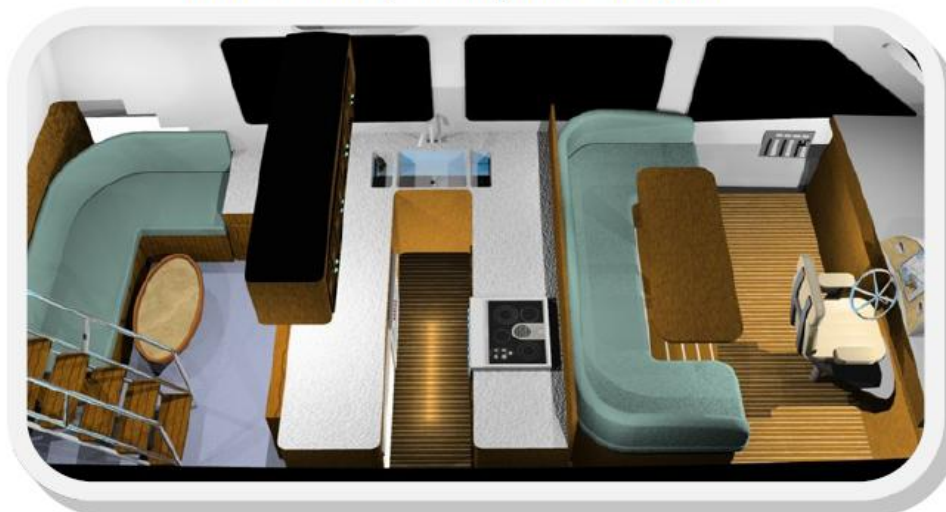
- Master Stateroom  
(In suite head with whirlpool tub aft)
- 2 staterooms forward with shared head
- Full galley and saloon
- Custom counter tops all galley and heads
- Under counter refrigeration and freezer drawers
- Quality helm chairs both upper and lower
- Dual purpose fly bridge: navigation and entertaining
- Aft cockpit to facilitate dingy launch and retrieval
- Dual navigation stations: fly bridge and saloon  
(Plus wireless remote)
- Electronic controls for steering and propulsion
- Ray Marine electronics, upper and lower stations
- Electrically operated elevating swim platform
- Central chilled water plant with fan coil air conditioners
- Bifurcating aluminum dingy with electric outboard  
(Stores in the garage)
- Low resistance hull design
- Fully recyclable aluminum construction



Forward Cabins



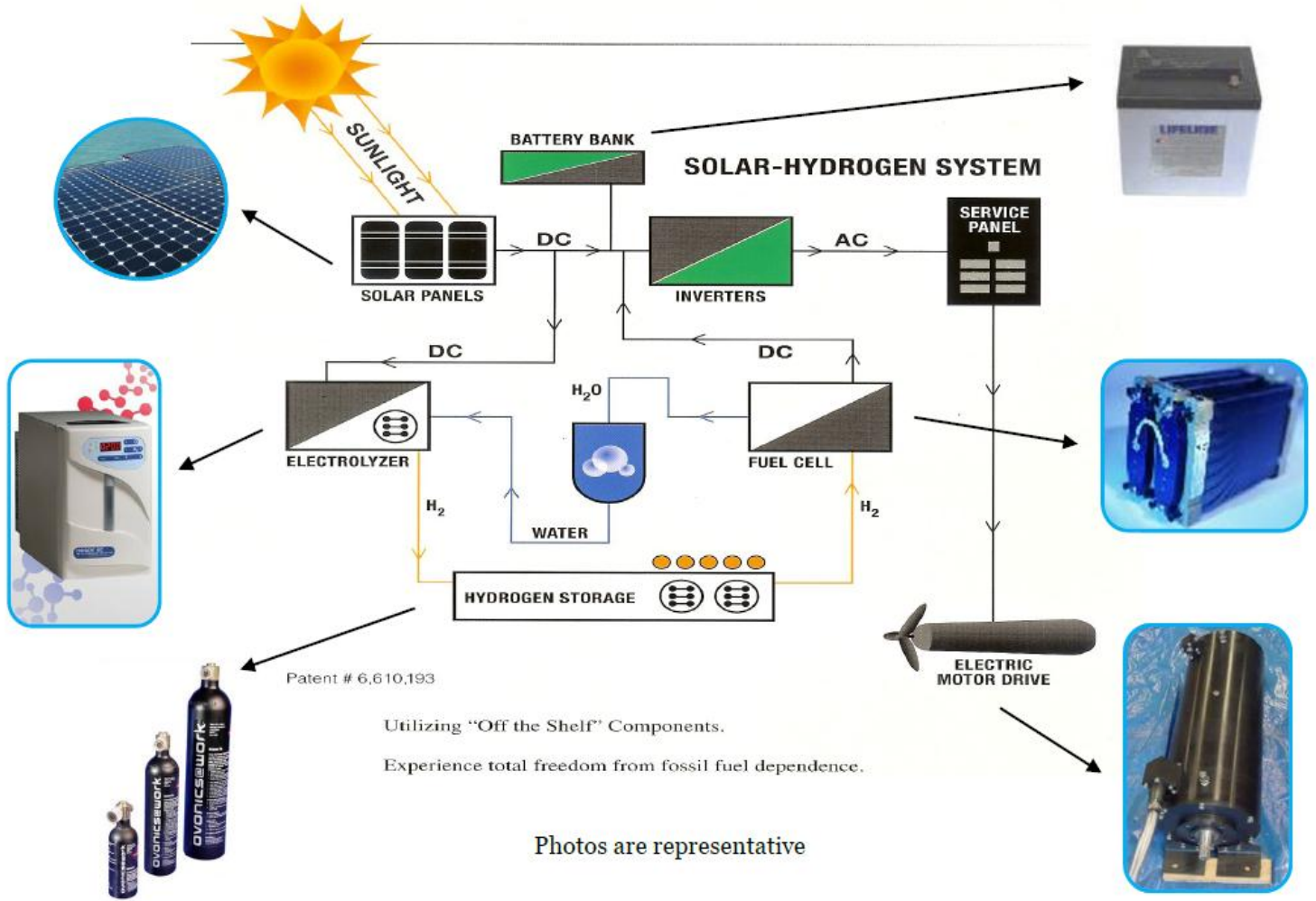
Lower Helm, Galley and Saloon



Rear Master Cabin



.. By Rod Ladd Yacht Design, Naval Architect



<b>Propulsion:</b>	2 @75kW 480 V electric azimuthing pods
<b>Maneuver:</b>	Variable speed electric bow thruster
<b>Energy Source:</b>	the <b>SUN</b>
<b>Fuel:</b>	Solar electric (PV) » water » hydrogen » electricity
<b>Solar Photovoltaic Panels:</b>	6 kW 48V
<b>Batteries:</b>	192 kwh AGM lead acid deep cycle
<b>Hydrogen electrolyzer:</b>	2.5 kg/day 48V KOH
<b>Hydrogen Storage:</b>	69 kg, 0 psi metal hydride canisters
<b>Hydrogen Fuel Cells:</b>	2@75kW 48V PEM
<b>Top Speed:</b>	13 knots*
<b>Cruising Speed:</b>	8 knots*
<b>Range at 8 Knot Cruise:</b>	600 nautical miles*
<b>Range at 6 knots (Solar PV <u>ONLY</u>):</b>	Unlimited (as long as the sun is shining!)
<b>Range at 6 knots (Battery <u>ONLY</u>):</b>	100 nautical miles*
<b>Range at 6 knots (Hydrogen <u>ONLY</u>):</b>	1200 nautical miles*
<b>Water Storage (US Gallons):</b>	Fresh- 200/ Black-300/ Grey-300

\* based on engineering model calculations, subject to revision