

SOLOCEAN FLOATER DATA SHEET

Advanced floating
PV system



FEATURES

The floater is constructed of 21 rotational moulded sections of highly resistant HDPE (High Density Polyethylene) which withstands UV rays and saltwater adhesion. The sections are connected by rods and bolts made of stainless steel including anchor points.

The PV foil of 72 half cut highly sensitive monocrystals are located between two glass elements. The special glass is highly flexible, allowing bending. A unique coating protects against the adhesion of salt crystals and bird droppings, making it perfectly applicable for coastal water.

The PV panel lay on the floater and held in place by the floater edges. Due to its flexibility and sensitivity of the cells it generates power at any hour of daylight, It generates 560 Wp per panel.

Due to the modular system the single elements can be assembled, connected and exchanged easily when a defect occurs.

The floater is characterized by its very high buoyancy and sensitivity to light.

FACTS

Dimensions (length x width)	2700 x 1350 mm
Floater material	HDPE
Anchor connections	Stainless steel
Glass	Curved and coated
Height	347 mm
Cells	72 halfcut monocrystals
Nominal power per floater	560 Wp
Nominal power per m ²	205 Wp
Weight glass module	28 kg
Total weight FPV	115 kg

The floater can be anchored to concrete blocks on the ground or to the banks of the water edge.

The cabling system connects from the system to the edge of the water which will then be distributed to a battery back-up system or/and directly to the grid system.

THE FLOATING PV SYSTEM INCLUDES

Floater Body

PV Panel

Anchor points

Cabling and IP68 connector plug and play

Assembly

Dashboard

Solocean presence for warranty

Optional transport

SPECIALTIES OF THE SYSTEM

/ Modular, flexible, high-buoyancy floating body

For maximum area performance and productivity.

/ Flexible system design for all FPV application areas

For use in both fresh and salt water.

/ Glass-glass PV modules with double butyl edge sealing

Ensure long-term efficiency of the high-quality panels and prevent delamination through diffusion tightness.

/ Mobile and transportable as a complete system on water surfaces

Easy installation of the system without complicated disassembly.

/ Photocatalytic, hydrophobic glass coating

Prevents organic dirt adhesion and salt-mineral incrustation.

/ Most advanced FPV technology on the world market

Enables high returns with relatively low investment costs.

ATTRIBUTES



Capable for high current up to 2 m/s



Withstand waves up to 3 m



UV + salt water resistant



Special coated & curved glass for max. sun exposure



Adapts into environment



Water protection



The SolOcean Advanced PV System has been manufactured at present in South Africa for the African market and also in Czech Republic for the Europe, UAE and Far East.

FOR OUR PLANET