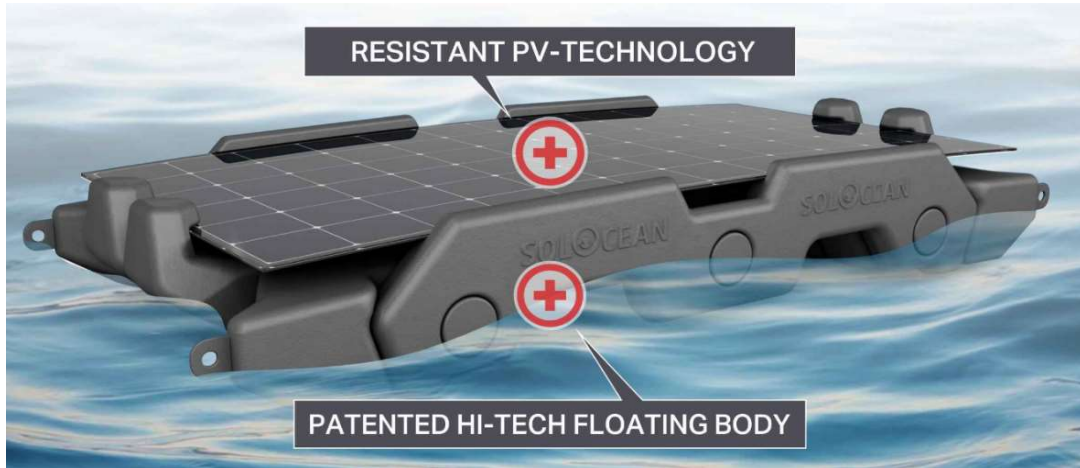


Datasheet SolOcean Floater



Mechanical data:

Dimensions Floater H x W xD	2130 x 1100 x 300mm
Grid dimension	2340 x 1140 mm
PV-Element dimension	2100 x 1034 x 8mm
Weight of the floaters	48 kg
Total weight with PV-Element	69 kg
Material	HDPE

Certification and warranties:

Certification	IEC 61215, IEC 61730 IEC 62716 (Ammonia corrosion test) ISO 9001, ISO 14001, OSHS 18001
Saltwater resistant	yes
Fire performance	Class C, Fire Class 1 (Italian)
Produkt warranty	15 years acc. manufacturer

Electrical data under STC:

Type	430	435	440	445
Maximun power MPP	430 Wp	435 Wp	440 Wp	445 Wp
Power per m ² module area	198,15 Wp	200,46 Wp	202,76 Wp	205,07 Wp
Power per m ² Floater	183,52 Wp	185,66 Wp	187,79 Wp	189,93 Wp
Power per m ² aperture area	161,19 Wp	163,07 Wp	164,94 Wp	166,82 Wp
Required area per MWp	6.204 m ²	6.132 m ²	6.063 m ²	5.995 m ²

These measurements are valid under standard test conditions STC. All electrical data +/-10%. Measurement uncertainty: +/-3% (STC: AM 1.5, radiation 1000W/m², cell-temperature 25°C)

Permissible operating conditions

Temperature range	-40°C bis +90°C
Test load max	according to IECup to 5.4 kPa snow / 2.4 kPa wind
Breaking load	>6.0 kPa
Approval for saltwater	yes
Wave resistant	up to 3 meters
Flow resistance	up to 2m/sec

Datasheet SolOcean PV-Element

Electrical data under STC:

Type		430	435	440	445
Maximun power MPP	Pmax	430 Wp	435 Wp	440 Wp	445 Wp
Open circuit voltage	Uoc	49,20 V	49,40 V	49,60 V	49,80 V
MPP voltage	Umpp	40,60 V	40,80 V	41,00 V	41,20 V
MPP current	Impp	10,60 A	10,67 A	10,74 A	10,81 A
Short circuit current	Isc	11,19 A	11,26 A	11,33 A	11,40 A
Modul efficiency	η modul	19,60 %	19,80 %	20,03 %	20,26 %
Performance sorting		-0/+5 Wp	-0/+5 Wp	-0/+5 Wp	-0/+5 Wp

These measurements are valid under standard test conditions STC. All electrical data +/-10%. Measurement uncertainty: +/-3%
(STC: AM 1,5; radiation 1000W/m²; cell-temperature 25°C)

Electrical data under NOCT:

Type		430	435	440	445
Maximun power MPP	Pmax	339 Wp	346 Wp	352 Wp	356 Wp
Open circuit voltage	Umpp	37,50 V	37,70 V	37,90 V	39,10 V
MPP voltage	Impp	8,50 A	8,56 A	8,61 A	9,11 A
MPP current	Uoc	45,90 V	46,10 V	46,30 V	47,50 V
Short circuit current	Isc	9,02 A	9,08 A	9,13 A	9,15 A

NOCT - Nominal module operation temperatur: Radiation 800Wp; ambient temperature 20°C
Windspeed 1m/s. All electrical data +/- 10%.

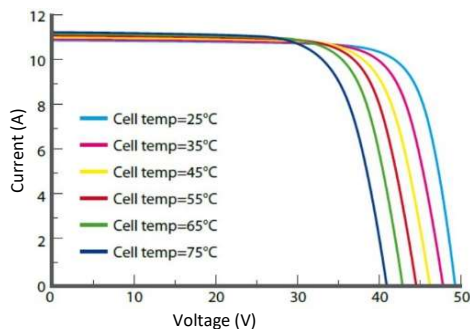
Permissible operating conditions

Temperature range		-40°C bis +90°C
Maximum system voltage		1.050 V
Test load max	testing according to IEC up to 5.4 kPa snow / 2.4 kPa wind	
Breaking load		>6.0 kPa
Hail resistance	hailstone up to 25mm \emptyset at 165,6 km/h v _{impact}	
	hailstone up to 55mm \emptyset at 120,6 km/h v _{impact}	
Reverse current strength		17 A

Temperature coefficient (Tc):

Tc short circuit current α	0,057 %/K
Tc open circuit voltage β	-0,27 %/K
Tc maximun power γ	-0,37 %/K
NOCT	42°C +/- 2

Current-Voltage-Curve:



Mechanical data:

Dimensions H x W x D	2100 x 1034 x 8mm
Weight	25 kg
Front glass	3,2mm tempered glass
Coating	Hydrophob
Incapsulant	Polyolefinfol
Cells	6 x 24 high efficient Halfcut Solarcells (166 x 83mm) Monokristallin, 12 Busbars
Cell type	Monokristallin, 12 Busbars
Backsheet	3,2mm tempered glass
Bypass control	active Elektronik on Stringlevel
Module connector	black Solarcable, 4mm ²
Connectors	Multi-Contact MC 4; IP68
Origin	Made in Austria

Certification and warranties

Certification	IEC 61215, IEC 61730, UL 61730 IEC 62716 (Ammonia corrosion test) IEC 61701 (Salt mist corrosion test) ISO 9001, ISO 14001, OSHS 18001 Safety class 2
Module fire performance	Class C, Fire Class 1 (Italian)
Product warranty	15 years extendable to 20/25
Output warranty of Pmax (Measure tolerance +/- 3%)	25 years linear acc. Warranty conditions