

Products

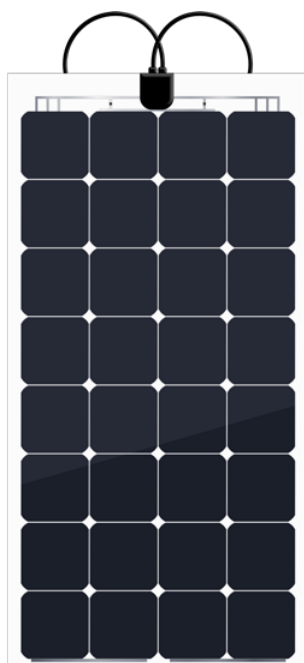
SP 60
 SP 48
 SP 36 Q
 SP 44
 SP 40
 SP 36 L
 SP 32
 SP 24
 SP 16 Q
 SP 16 L

The series

The SP series is at the top of the range, thanks to the use of SunPower Maxeon back-contact solar cells, able to convert up to 25.9% of sunlight into electricity. The electrical contacts hidden on the rear of the cell make these panels especially pleasing in appearance. SunPower Maxeon back-contact cells represent the most advanced technology on the market, and make the SP Solbian panels the highest-efficiency flexible panels. Flexible, powerful and robust, the panels of the SP series are recommended for all installations where maximum reliability and power are required, and they remain the most iconic symbol of high quality photovoltaic modules. They can be used in all situations and are a best seller in marine applications.

Features

- The most efficient flexible modules on the market
- Ultra-thin design, less than 2 mm thick, with a weight of 2.4 kg/m²
- Completely waterproof and resistant to salt water
- Integrated bypass diodes to minimise output losses associated with partial shading
- Available with different front sheets, back sheets and many fixing and electrical wiring options
- Designed and manufactured in Italy
- IEC 61215, IEC 61730 and IEC 61701 certified
- 5-year warranty against manufacturing defects



SP Series SUNPOWER inside

SunPower Maxeon cells used in SP series panels are high efficiency monocrystalline cells (the highest available on the market). The electric contacts create a thick pattern resembling two interpenetrating combs on the rear of the cell, this guarantees an optimal management of micro fractures, without power loss.

Back-contact cells are also the best choice when it comes to efficiency in low light and sensitivity at higher temperatures. In fact the temperature coefficient is 25% lower than the other cristalline cells.

SunPower Maxeon cell



No grid lines on the front of the cell means no obstacles to the absorption of sunlight.

Maximum efficiency and great aesthetics.



Solid copper backing.

Massive strength and resistance to corrosion.

	SP 60	SP 48	SP 36 Q	SP 44	SP 40	SP 36 L	SP 32	SP 24	SP 16 L	SP 16 Q
Product	Lightweight semi-flexible solar panel									
Power at STC [W] ①	213	170	128	156	142	128	114	85	57	57
Power tolerance [%]	± 3									
Length [mm]	1363	1109	855	1490	1363	1236	1109	855	1109	601
Width [mm]	800	800	800	546	546	546	546	546	292	546
Thickness [mm]	2									
Weight [kg]	2.6	2.1	1.6	2	1.8	1.6	1.5	1.1	0.8	0.8
PV solar cells no.	60	48	36	44	40	36	32	24	16	16
PV solar cells	SunPower Maxeon back contact ②									
PV Solar cell efficiency [%]	Min 24.4									
No. of bypass diodes ③	3	3	3	2	2	2	2	2	1	2
Voltage at maximum power Vmp at STC [V] ①	37.7	30.1	22.6	27.6	25.1	22.6	20.1	15.1	10	10
Current at maximum power Imp at STC [A] ①	5.7									
Open-circuit voltage Voc at STC [V] ①	44	35.2	26.4	32.3	29.3	26.4	23.5	17.6	11.7	11.7
Short-circuit current Isc [A]	6.1									
Minimum design load [Pa] ④	1600									
NOCT [°C]	45 ± 2									
Operating temperature [°C]	-40 / +85									
Temp. coeff. Pmax [%/°C]	-0.27									
Temp. coeff. Voc [%/°C]	-0.24									
Temp. coeff. Isc [%/°C]	0.058									
Maximum system voltage [V]	1000									
Maximum reverse current [A]	12									
Safety class	A									
Warranty [year] ⑤	5									

① Values at STC = Standard Test Conditions: (a) light spectrum for an air mass of 1.5; (b) irradiance of 1000 W/m² with perpendicular incidence and (c) cell temperature of 25 °C. Measurements carried out according to the Standard IEC 61215 requirements.

② SunPower/Maxeon Gen 3 cell technology, Cell Bin Ne3, with a guaranteed minimum efficiency of 24.4% (effective from 01.08.2026).

③ Diodes suitable for lamination and encapsulated within the panel.

④ Rated load for the solar panel when it is mounted on a rigid surface.

⑤ See the Solbian "Warranty conditions" for more information.

Certifications

