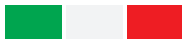


New energy, a whole new story

Flexible, light and resilient,
resisting the harshest
environmental conditions.
Solbian photovoltaic modules
are made with cells that
convert up to 25.5% of
sunlight into electricity.

**All the energy to live your
passions without limits.**

SOLBIAN

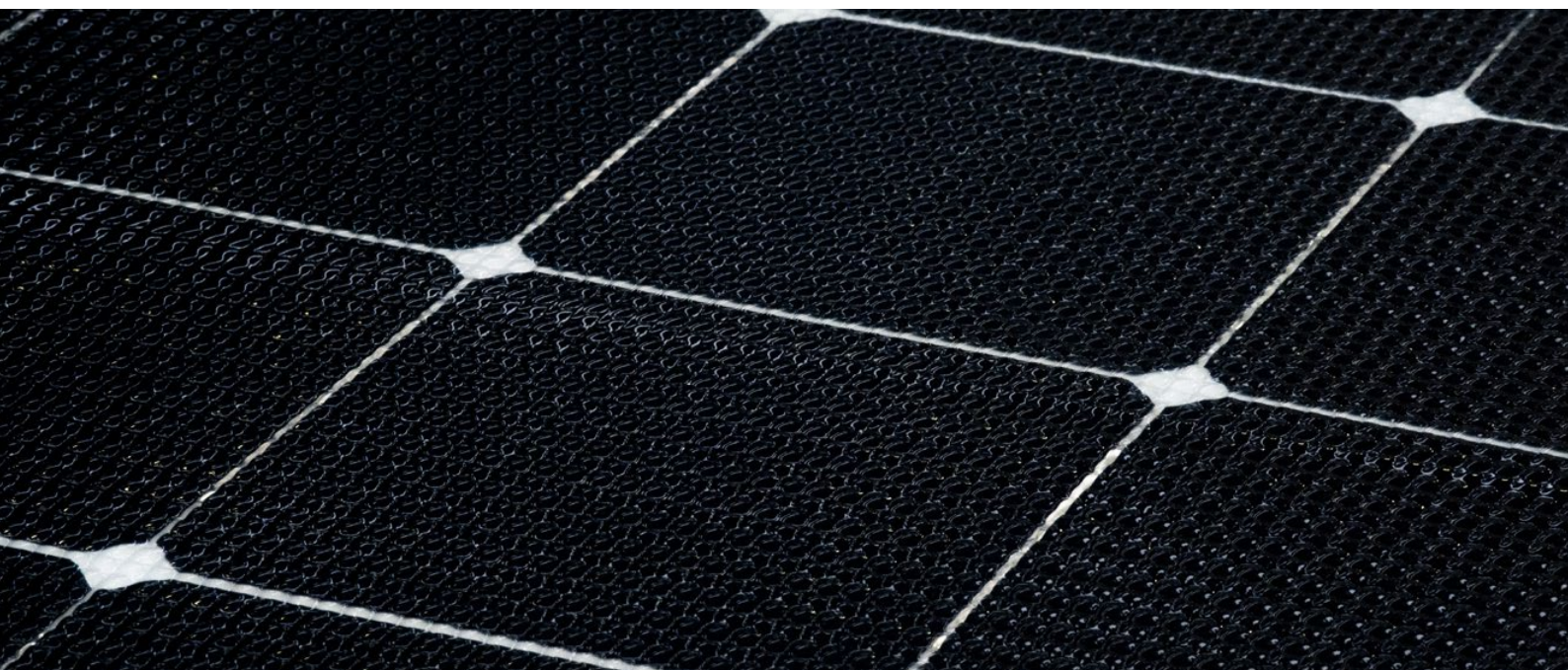

MADE IN ITALY

[SOLBIAN.EU](https://solbian.eu)



Many good reasons to choose Solbian

Product quality, durability and maximum performance, always.



- ✓ Because we guarantee the quality of the product and its duration in time.
- ✓ Because our panels are extremely strong, thin and extraordinarily flexible, able to adapt to curved surfaces, such as the spoiler of a truck, the roof of a car or the deck of a boat.
- ✓ Because our panels are ultra-lightweight: about 2.5 kg per square meter, compared to 12 kg and more of traditional panels.
- ✓ Because we manufacture the SP series, with the most efficient solar cells on the market: high power even in very small dimensions.
- ✓ Because our panels are customized to the client's requirements: clients can choose the number of cells, colour, shape and electrical characteristics to obtain a result that suits their needs perfectly.
- ✓ Because the ease of installation, both permanent and removable, is one of the strengths of Solbian.
- ✓ Because we offer a wide range of accessories, designed and manufactured for several different applications.
- ✓ Because Solbian panels, drawing on a wealth of experience in the marine industry, have been tested in the most extreme conditions by great sailing heroes: Giovanni Soldini, Ambrogio Beccaria, Yannick Bestaven, Boris Herrmann and many others.
- ✓ Because our products are certified according to IEC 61215, IEC 61730 and IEC 61701 (salt mist). Solbian has also obtained ISO 9001 Quality certification.



Something new under the Sun

Solbianflex technology

No task is too hard for Solbianflex technology, offering a wide range of power options. Flexible solar panels made with crystalline silicon cells, the most efficient and proven on the market, combined with lightweight and flexible encapsulation materials.

Multiple power configurations, all winners.



The photovoltaic set

Panel

Lightweight and extraordinarily flexible, able to adapt to curved surfaces.

Cables

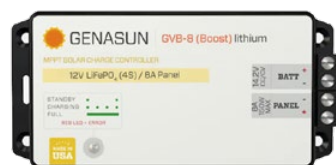
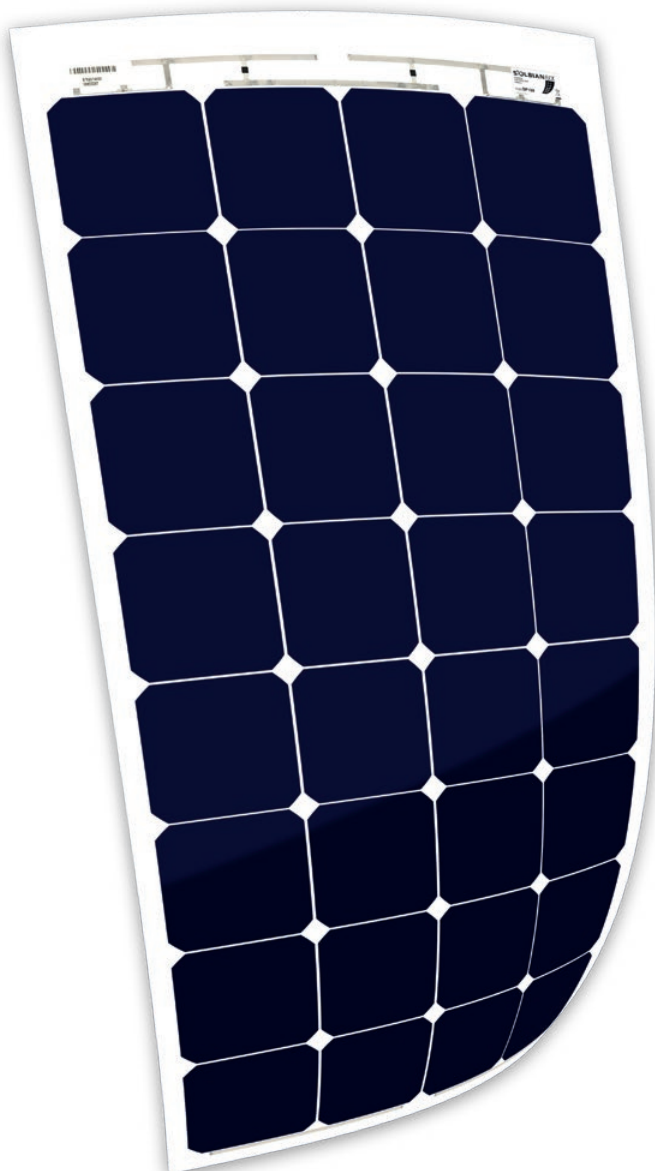
For the wiring, provided at required length.

Controller

Perfect combination between the solar panel and the battery to be charged.

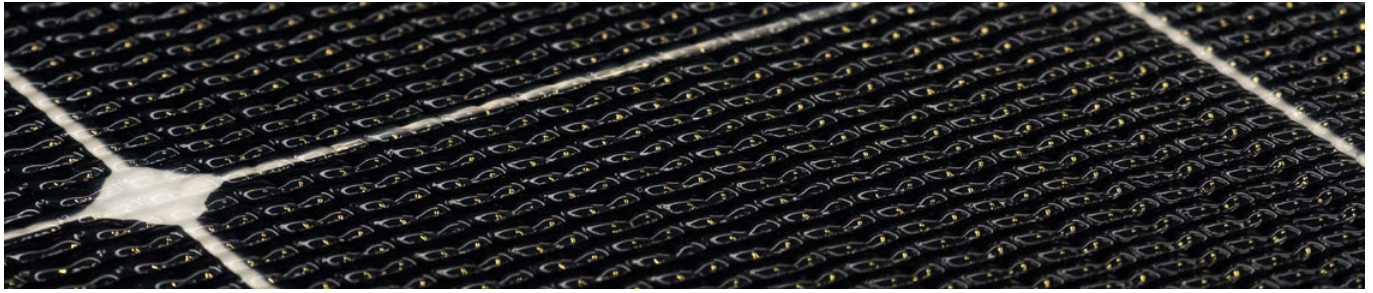
Connectors

Fully waterproof, safe, and easy-to-remove electrical connections.



Power at the highest level

SP Series



The SP series is at the top of the range, thanks to the use of SunPower back-contact solar cells, able to convert up to 25.5% of sunlight into electricity and with a pleasant appearance thanks to the electrical contacts hidden on the back. Back-contact cells represent the most advanced technology on the market, and make the SP Solbian panels the highest-efficiency flexible panels.

	SP 48	SP 36 Q	SP 44	SP 40	SP 36 L	SP 32	SP 24	SP 16 Q	SP 16 L
Power (W)	164	124	150	136	124	110	82	54	54
Length (mm)	1109	855	1490	1363	1236	1109	855	601	1109
Width (mm)	800	800	546	546	546	546	546	546	292
Thickness (mm)	2	2	2	2	2	2	2	2	2
Weight (kg)	2,1	1,6	2,0	1,8	1,6	1,5	1,1	0,8	0,8
N. of cells	6×8 (48)	6×6 (36)	4×11 (44)	4×10	4×9 (36)	4×8 (32)	4×6 (24)	4×4 (16)	2×8 (16)

Super rugged series

SR Series



Monocrystalline high efficiency Merlin solar cells are sandwiched by two patented metallic grids. The metallic grid on the front of the cell is specifically designed to maximize the current harvesting. On the rear of the cell a second grid provides extreme resistance to cracks and over-bending. The grids essentially form a double shield that acts as a conducting reinforcement to the solar cell. Extreme crack and bend tolerance are built in, providing a guarantee of high efficiency and unmatched durability.

	SR 48	SR 36 Q	SR 36 L	SR 32	SR 24	SR 16 Q	SR 16 L	SR 14
Power (W)	240	180	180	160	120	80	80	70
Length (mm)	1379	1058	1540	1379	1058	736	1379	1219
Width (mm)	1013	1013	691	691	691	691	370	370
Thickness (mm)	2	2	2	2	2	2	2	2
Weight (kg)	3,4	2,6	2,6	2,3	1,8	1,2	1,2	1,1
N. of cells	6×8 (48)	6×6 (36)	4×9 (36)	4×8 (32)	4×6 (24)	4×4 (16)	2×8 (16)	2×7 (14)

Freedom made-to-measure Custom panels

With great versatility, Solbian panels are able to meet the most demanding requirements, even in the most unusual installations. They can be mounted and removed with ease, thanks to several accessories, and adapted to various surfaces.



Photo: Custom ISP panels on the rowboat of the team "Nuts over the Atlantic", Talisker Whisky Atlantic Challenge 2017.

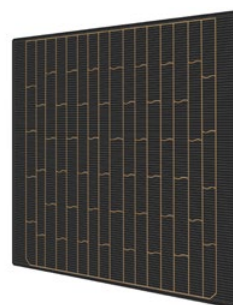
The panel

Cell



SP

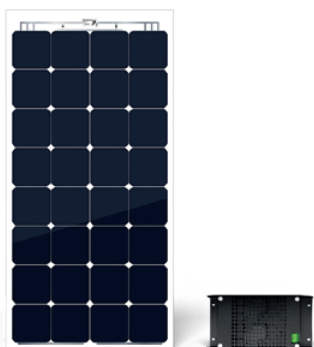
No grid lines on the front of the cell means no obstacles to the absorption of sunlight. Maximum efficiency and great aesthetics.



SR

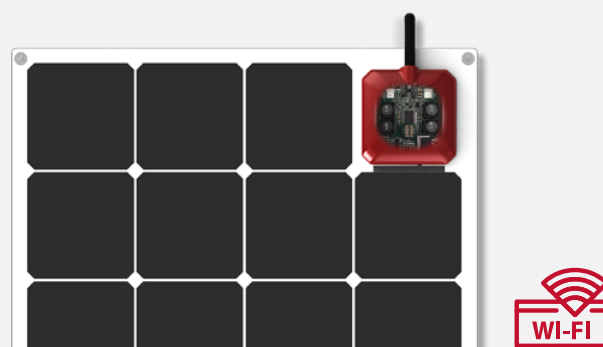
The metallic grid on the front of the cell is specifically designed to maximize the current harvesting. More power and high reliability.

Formula



Solar panel + charge controller

The golden rule for marine applications suggests “one panel, one controller”. Solbian offers some of the most advanced charge controllers on the market, for optimal solar power management in all conditions.



ALLinONE Solution 2.0 Connect

The ALLinONE solution is designed for those who need a simple, complete, and ready-to-use solar system. All key components, including the MPPT charge controller, are integrated into a single panel that's easy to install and intuitive to operate. The system can be configured in just a few steps and is compatible with any type of battery. With the new web interface, you can monitor performance in real time and adjust settings effortlessly.

The aesthetics

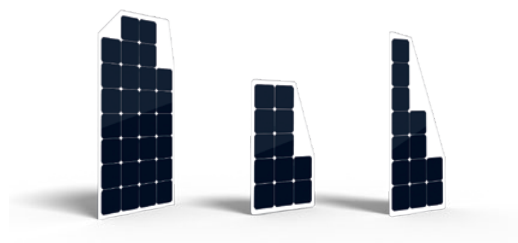
Size and shape



Size

All our products can have customized size:

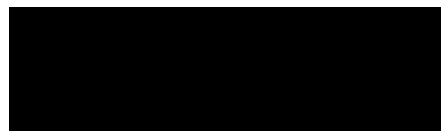
- Width: 150 mm - 1100 mm
- Length: 150 mm - 2100 mm



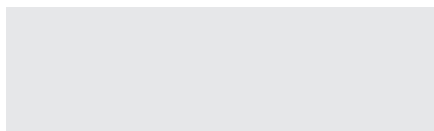
Shape

All our panels can have customized shapes to best adapt to the context for which they are intended and to make the most of the available spaces.

Backsheet



Black



White



Transparent

Graphics

A masking layer placed over the solar cells changes the visual appearance of the solar panel, but keeps the cells efficiency largely unaffected.



Blue



Light blue



Grey



Light grey



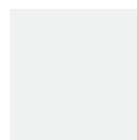
Dark grey



Pearl beige



Maroon



White

Colors are subject to availability

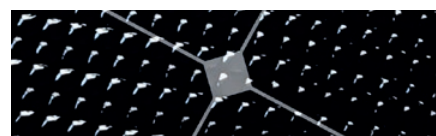
Finishing



Glossy



Matte



Textured

The final touch

Fixing options



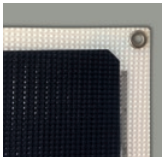
Zip and touch fastener

Easy to install and easy to remove, zipper and VELCRO® Brand hook and loop fastener are suitable for the bimini of your boat as well as for your camping tent.



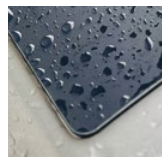
LOXX® snap fasteners

LOXX® snap fasteners are suitable for fabric and sheets of plastic material as well as rigid structures.



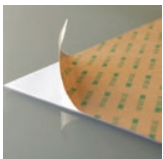
Eyelets

Solbian panels can be equipped with special stainless steel eyelets along the edge that allow easy installation with ropes or screws.



Magnetic NEW MATERIAL

Integrated magnetic back panel, easy to install and reposition everytime you need.



Adhesive

The fixing option with double-sided structural adhesive protects the panel from possible theft as it is irremovable.

Connections



Front or rear Junction box

The Junction Box (JB) provides a safe and sturdy electrical connection. Solbian offers premium Junction Boxes guaranteed to withstand weathering for over twenty years. The JB can be applied on the back of the panel or on its front.



Monopolar junction box

Original MC4 connectors designed to be applied on the panel surface. A solution that simplifies transport and electrical connection. Extension cables in the desired lengths and connectors are supplied.



Surface Mounting

For an invisible electrical connection, two insulated wires and a specifically designed cable gland are placed on the rear of the panel, clearly showing the electrical polarity and ensuring good contact. An alternative to the Junction Box, particularly suitable for the structural integration with adhesive.

Charge controllers



Genasun

Genasun was founded by a group of engineers from MIT and all the charge controllers are equipped with the Maximum Power Point Tracking (MPPT) technology to reach a conversion efficiency greater than 99%. Not all MPPTs are the same, Genasun technology tracks the MPP 15 times per second to capture each single Watt from the panel. Genasun are the lighter, smaller, and most efficient solar charge controllers in the market. Buck or Boost technology, they are designed for lithium and lead-acid batteries and tested for the marine industry.



Victron

Victron Energy provides power solutions to marine, industrial, automotive, mobility, off-grid and solar markets around the world. Victron SmartSolar charge controllers enable automatic battery voltage recognition, intelligent battery management by load shedding, ultra-fast response times to solar irradiance and multi stage charging algorithms. Victron MPPTs are unique, having solar power limiting built in, which ensures the output power of a system will never exceed the maximum rating of the controller.



Western

Western CO. MPPT charge controllers have special integrated features, like: automatic detection of battery 12 V - 24 V, protection against deep battery discharge, polarity reversal, overload protection, and are suitable for both lithium batteries and lead-acid batteries. A large display shows the operation status of the controller and all the most important electrical values which make them versatile solutions for every use.



WhisperPower

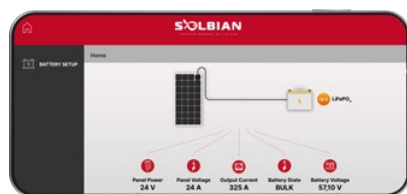
WhisperPower provides a wide range of solar charge controllers, PWM and MPPT, for any type of application. Suntrack MPPT Solar Charge controllers are designed for charging batteries to a 12, 24, or 48 VDC. The advanced MPPT technology applied ensures a fast and complete charge, even under cloudy and fluctuating weather circumstances. The Suntrack line comes with a monitoring APP and Bluetooth connection.

Control your system wherever you are

Remotely monitor your solar setup from one place*

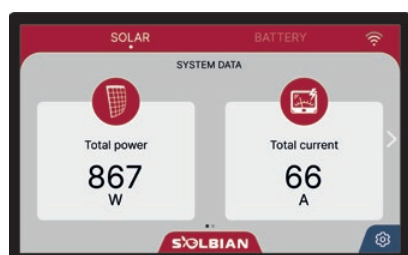


*Remote monitoring available exclusively with the ALLinONE 2.0 solution.



Web interface

Stay connected to your solar photovoltaic system like never before. The new web interface lets you monitor real-time performance and adjust settings with ease. Whether tracking energy output or fine-tuning your setup, it provides full control and insight from any device, ensuring your panels always operate at peak efficiency.



Display

CURRENTLY IN DEVELOPMENT

Designed for flush mounting, this modern 4.3" touchscreen display offers a clear and immediate view of your system's key data. It provides direct access to charge controller information and detailed battery status, all in a compact, user-friendly format. Fully integrated and cable-free, the display ensures smooth interaction through a responsive interface and wireless connectivity.

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