New energy, a whole new story

Flexible, light and resilient, resisting the harshest environmental conditions. Solbianflex photovoltaic modules are made using cells with up to 23% conversion of sunlight into electricity.

All the energy to live your passions without limits.

SOLBIAN

FREEDOM POWERED BY THE SUN

MADE IN ITALY

SOLBIAN.SOLAR

Many good reasons for choosing 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 very resilient, thin and extraordinarily flexible, able to adapt to curved surfaces, such as the deck of a boat.
- ✓ Because our panels are ultra-lightweight: only 2.1 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 the ease of installation, both permanent and removable, is one of the strengths of Solbian: from structural adhesive to steel eyelets, all the different fixing methods provide easy installation.
- ✓ Because we offer a wide range of accessories, designed and manufactured for the marine industry.
- ✓ Because Solbian panels have been tested in extreme conditions by great heroes of sailing: Giovanni Soldini, Sébastien Roubinet, Alessandro Di Benedetto and many others.
- ✓ Because our products are certified according to IEC61215 and IEC 61730. Solbian has also obtained ISO9001 Quality, OHSAS18001 Safety and ISO14001 Environmental certifications.

Power at the highest level.

MADE IN ITALY

SP Series

SP series is at the top of the range, thanks to the use of selected SunPower™ monocrystalline silicon cells, reaching a record 23% conversion of sunlight into electricity and with a pleasant appearance thanks to back-contact technology which hides the electrical contacts. SunPower™ cells represent the most advanced available technology on the market, and make the SP Solbian panels the highest-efficiency flexible panels.

	SP 125	SP 112 L	SP 112 Q	SP 100	SP 75	SP 50 L	SP 50 Q
Power	125 W	112 W	112 W	102 W	76 W	51 W	51 W
Lenght	1363 mm	1236 mm	855 mm	1109 mm	855 mm	1109 mm	601 mm
Width	546 mm	546 mm	800 mm	546 mm	546 mm	292 mm	546 mm
Thickness	2 mm	2 mm	2 mm	2 mm	2 mm	2 mm	2 mm
Weight	1.7 kg	1.6 kg	1.6 kg	1.4 kg	1.1 kg	0.8 kg	0.8 kg
N. of cells	40	36	36	32	24	16	16

Super Rugged Series.

MADE IN ITALY

SR Series

The monocrystalline high efficiency SR cells are sandwiched by two patented "Merlin" metallic grids. One grid, on the front, is carefully tailored to optimize the current harvesting, while the grid behind the cell offers strong mechanical support. 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, enabling novel crystalline silicon architectures. A guaranty of high efficiency and unmatched durability in semi-flexible solar panels.

	SR 156 L	SR 156 Q	SR 104	SR 70 L	SR 70 Q	SR 60
Power	156 W	156 W	104 W	70 W	70 W	61 W
Lenght	1523 mm	1046 mm	1046 mm	1364 mm	728 mm	1205 mm
Width	683 mm	996 mm	683 mm	365 mm	683 mm	365 mm
Thickness	2 mm	2 mm	2 mm	2 mm	2 mm	2 mm
Weight	2.4 kg	2.4 kg	1.6 kg	1.2 kg	1.2 kg	1 kg
N. of cells	36	36	24	16	16	14

Aesthetics, reliability and price.

MADE IN ITALY

SXp Series

The polycristalline solar cells used in the SXp series are electrically connected using ultra-thin copper wires that form a very fine mesh on the cell surface, resulting in thousands of contact connected points. This alternative to the standard bus-bar method allows a higher module power and increases the energy yield. This technology is optimally suited to flexible modules, due to its intrinsic insensitivity to micro-cracks, that are the most common cause of energy loss in solar modules. Another advantage is a reduced sensitiveness to shading, a quite important issue in marine and mobility applications. The new connection technology, together with the use of high efficiency polycrystalline silicon cells, makes SXp panels especially powerful and reliable.

	SXp 145 L	SXp 145 Q	SXp 96	SXp 64 L	SXp 64 Q	SXp 56
Power	145 W	145 W	96 W	64 W	64 W	56 W
Lenght	1523 mm	1046 mm	1046 mm	1364 mm	728 mm	1205 mm
Width	683 mm	996 mm	683 mm	365 mm	683 mm	365 mm
Thickness	2 mm	2 mm	2 mm	2 mm	2 mm	2 mm
Weight	2.4 kg	2.4 kg	1.6 kg	1.2 kg	1.2 kg	1 kg
N. of cells	36	36	24	16	16	14

Embed solar in your structure.

Surface Mounting (SM) option

Solbianflex^{SM} panels will become part of your boat deck, of your caravan roof or your golf cart hard-top. The SM option consists of a textured surface and of a safe and durable electrical connection via moisture-resistant cables. A custom-made grommet offers a perfect sealing of the electrical contacts and avoids chafing of the cables. Last but not least, SM panels can be offered with ready-to-use structural adhesive. The external layer of the new front, made by a highly technical fluorinated polymer, assures UV and scratch resistance, and excellent light transmission.

SM options is free of charge for the SP series panels.

An overcharge of 20% will be calculated if requested on SR or SXp series.

The most advanced solar USB charger in the market

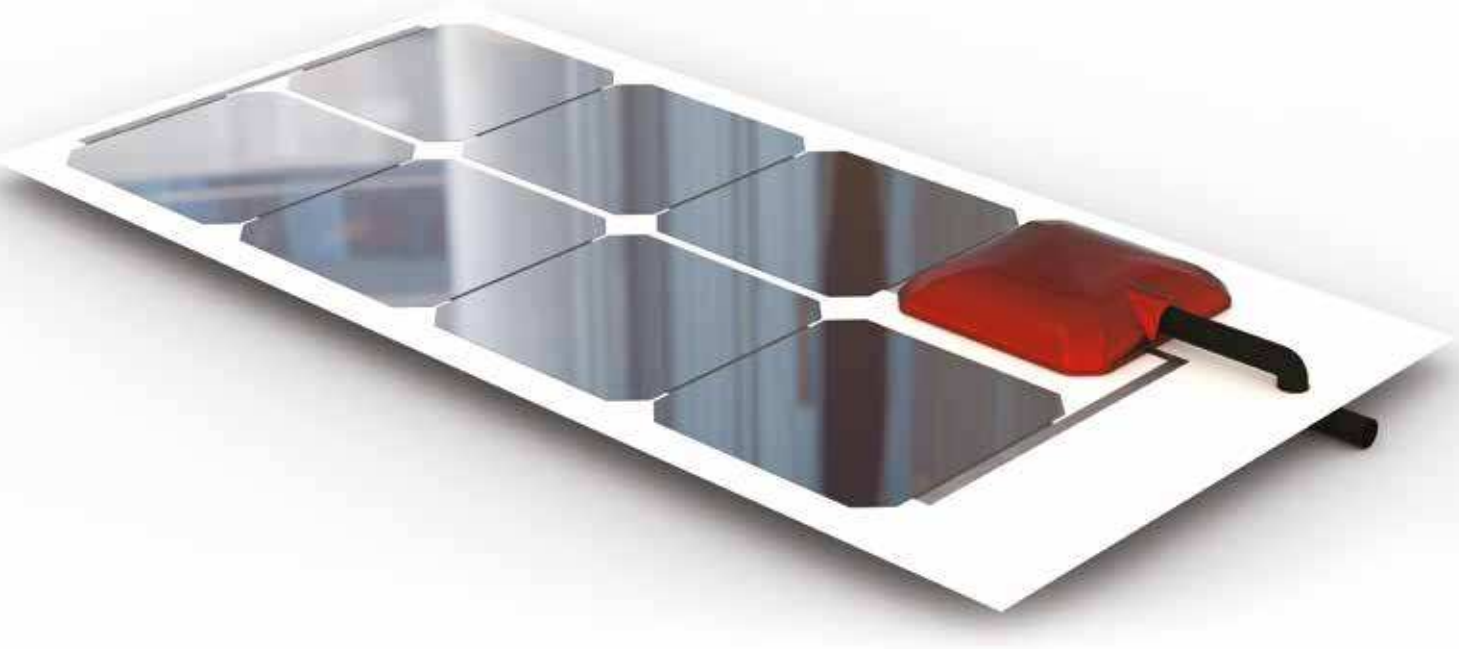
Energy Flyer

Price (excluding VAT) **€ 149,00**

It's never been so easy to get the most from SunPower™ cells

ALLinONE series

Just connect the output cable to your battery.



The SP series, top of the Solbianflex range, in a new ALLinONE version: solar panel + charge controller. All the electronics you need is already packed into the rugged waterproof metal box: a sophisticated MPPT controller capable of boosting the voltage for a perfect fit to your battery.

	SP 23 ALLinONE	SP 47 L ALLinONE	SP 47 Q ALLinONE	SP 72 L ALLinONE
Power	23 W	47 W	47 W	72 W
Battery voltage	12/24 V	12/24 V	12/24 V	12/24 V
Maximum Current	2/1 A	4/2 A	4/2 A	6/3 A
Length	600 mm	1109 mm	601 mm	855 mm
Width	292 mm	292 mm	546 mm	546 mm
Thickness	15 mm	15 mm	15 mm	15 mm
Weight	0.6 kg	0.9 kg	0.9 kg	1.2 kg
N. of cells	7	15	15	23

From the smallest 23W model, ideal to keep your battery charged, to the 72W panel, with enough power to supply the refrigerator on your caravan or boat. The ALLinONE models can be combined simply by connecting each of them directly to your battery, each panel being completely independent from the others, thanks to the integrated charge controllers.

Charge controllers

Optimal solar energy management in all conditions.

Solbian offers some of the most advanced charge controllers of the market, for optimal solar power management in all conditions. The golden rule for marine applications suggests "one panel, one controller", but it can be achieved only with a perfect match between the solar generator and the battery to be recharged.

By using our selected DC/DC converters with MPPT optimization system (Maximum Power Point Tracking) you will have all the freedom in choosing panel size and configuration, **and no matter what battery you need to charge (12, 24, 48 V... lead acid or lithium), the charge contoller will take care of your needs.**

CTEK, GENASUN, WESTERN CO. and VICTRON. Four renowned international brands, the same controllers chosen and tested by professional sailors and by several automotive companies, to harvest as much energy as possible from the sun.

Connections and fixing options

Junction Box

Solbianflex panels can be supplied with the junction box to allow connection with the charge controller. Solbian provides a complete kit with cables and connectors for easy installation.

Structural adhesive

The flexible Solbianflex panels can become an integral part of the boat by means of a special double-sided structural adhesive. The electrical connection can be made via the junction box or by direct connection to the positive and negative poles of the panels (Surface Mounting solution).

LOXX snap fastners

Snap fastners, a special kind of eyelets, make the attachment and removal of the panels easier. They are suitable for installation on canvas as well as on hard surfaces.

Stainless steel eyelets

They can be fixed on the edges of the panels to allow easy installation and removal. This solution allows you to fix the panel with ropes or screws.

Zipper

A zipper can be sewn onto the panel, allowing a removable installation, especially on the bimini.

Contents of a photovoltaic kit

Installation examples

IDEC SPORT

BENETEAU OCEANIS 48

Vismara 47

VW California

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Sailectron e.U.

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