


SUN CYPRUS

YACHTING

SOLAR PANELS:

SOLBIAN



MADE IN ITALY

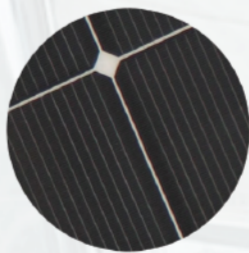
SolbianFlex solar panels are manufactured to every customer's specifications in Avigliana, Italy, close to Turin. An in-house technical office takes care of the planning of your system – be it analyzing CAD data of your project or optimizing the cable positions and internal cell layout to maximize energy yield for your specific project. We deliver complete kits, ready for installation.

FLEXIBLE SOLAR PANELS

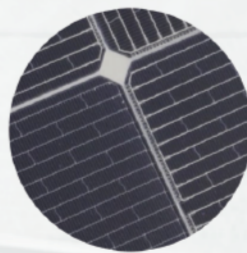
Cell technologies matching every project requirement



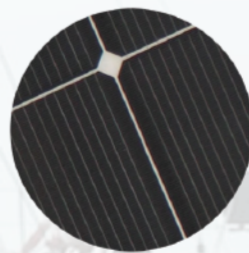
SP series



SXX series



SR series



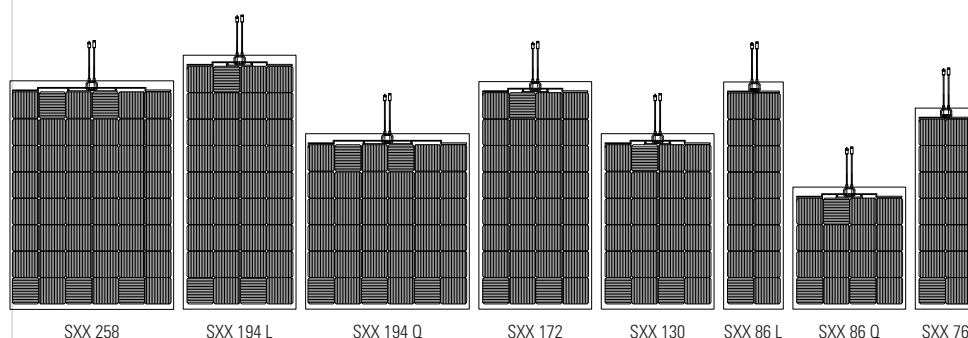
SX series

More info:



More power with HJT cells.

SXX series



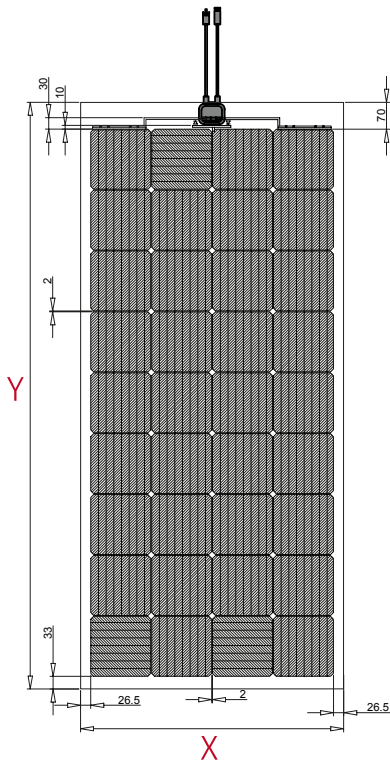
In the SXX series the heterojunction solar cells are electrically connected using ultra-thin copper wires that form a very fine mesh on the cell surface, resulting in thousands of contact points. This alternative to the standard bus-bar method allows a higher module power and increases the energy yield. A technology optimally suited to flexible modules, thanks to its intrinsic insensitivity to micro-cracks, that are the most common cause of energy loss in solar modules.

The SXX series comes at the same size of standard 6 inches cell panels but generates more power, thanks to its silicon-based heterojunction solar cells (HJT) that offer more than 23% of efficiency. When compared with panels of the same nominal power, the SXX prove to harvest more energy due to HJT cells being intrinsically bifacial, an important feature especially when cells are encapsulated in a transparent sandwich and installed with the back exposed to indirect light. To top it all, HJT cells perform better than others in hot climates, thanks to very low temperature coefficients.

Features

- ✓ High resistance to mechanical stresses thanks to the thin wires thick mesh on the cell surface
- ✓ Flexible and lightweight (2.2 kg/m²)
- ✓ Very high efficiency (> 23%)
- ✓ Low temperature coefficients (at high temperatures HJT cells show an efficiency drop 20% lower than standard silicon cells)
- ✓ Extra energy obtained thanks to the bifaciality, especially important for applications where the rear side of the module intercepts the reflection of light
- ✓ Completely waterproof and resistant to salt water
- ✓ Thin (less than 2 mm)
- ✓ 5 year warranty against manufacturing defects
- ✓ Positive power tolerance (0%, +5%)
- ✓ Available with different front sheets, many fixing and electrical wiring options
- ✓ White, black or transparent back sheet
- ✓ Adaptable to any battery: from 5 to 48 volt, lead-acid or lithium
- ✓ Designed and manufactured in Italy





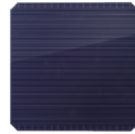
SOLBIANFLEX SXX

SXX series **HEVEL** inside

Hevel's laminated cell with patented SmartWire™ Technology, uniquely interconnects solar cells and collects the power they generate. A matrix of electrically efficient copper wires coated with a custom, low melting-point alloy, assures a reliable and fault tolerant electrical connection between cells. The combination of SmartWire™ technology and heterojunction solar cells provides the SXX panels with microcracks protection and bifaciality.

While the front side of the cell can convert light into electricity with an efficiency larger than 23%, the back can match 90% of the power produced by the front side. If compared with single-face cells of the same nominal power, the joint action of both sides in bifacial cells can lead to a higher daily production of energy.

Hevel cell



On the front of the cell electrically-efficient copper wires form a mesh that creates a very high number of connection points.

High efficiency also in low light.



The intrinsically bifacial HJT technology offers an active cell backside.

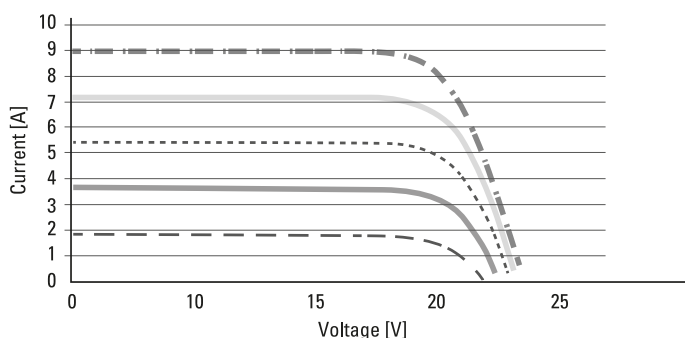
More energy even when optimal panel orientation can't be achieved.

Datasheet

	SXX 258	SXX 194 L	SXX 194 Q	SXX 194 G	SXX 172	SXX 130	SXX 130 G	SXX 86 L	SXX 86 Q	SXX 76
Maximum power (0%, +5%) [W]	258	194	194	194	172	130	130	86	86	76
Length Y [mm]	1364	1523	1046	1075	1364	1046	754	1364	728	1205
Width X [mm]	994	683	994	994	683	683	1016	365	683	365
Thickness [mm]	2	2	2	2	2	2	2	2	2	2
Weight [kg]	3.00	2.40	2.40	2.40	2.10	1.70	1.80	1.20	1.20	1.10
Max power Voltage Vmp [V]	30.0	22.6	22.6	22.6	20.0	15.1	15.1	10.0	10.0	8.8
Max power Current Imp [A]	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
Open circuit voltage Voc [V]	35.5	26.6	26.6	26.6	23.6	17.7	17.7	11.8	11.8	10.3
Short circuit current Isc [A]	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
NOCT [°C]	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2
Operating temperature [°C]	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85
Temp. coeff. Pmax [%/°C]	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32
Temp. coeff. Voc [%/°C]	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
Temp. coeff. Isc [%/°C]	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Columns x Rows (cells n°)	6x8 (48)	4x9 (36)	6x6 (36)	6x6 (36)	4x8 (32)	4x6 (24)	6x4 (24)	2x8 (16)	4x4 (16)	2x7 (14)
Maximum system voltage [V]	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Maximum reverse current [A]	12 A	12 A	12 A	12 A	12 A	12 A	12 A	12 A	12 A	12 A
Safety class	A	A	A	A	A	A	A	A	A	A

* 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.

Electrical Characteristics



Certifications



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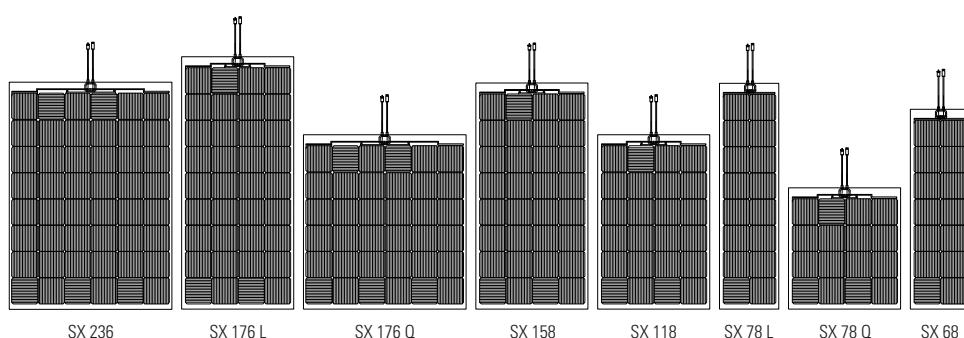
Solbian GmbH | Graz, AUSTRIA | DE: +49 1520 4006520 | AT: +43 650 5700366 | info@solbian-solar.com | www.solbian-solar.com

SOLBIANFLEX SX



Aesthetics, reliability and price.

SX series



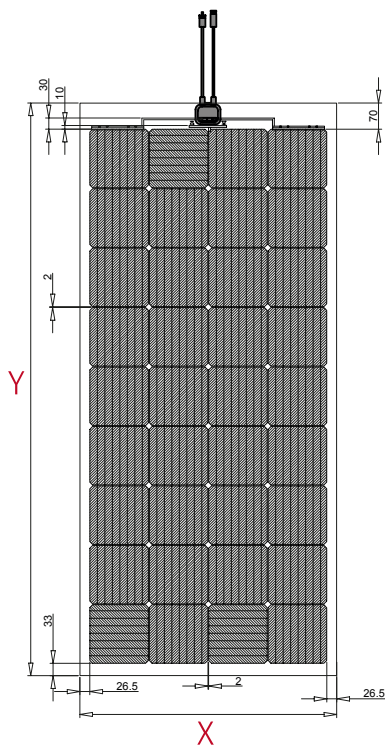
In the SX series the monocrystalline solar cells are electrically connected using ultra-thin copper wires that form a very fine mesh on the cell surface, resulting in thousands of contact connected points. This alternative to the standard bus-bar method allows a higher module power and increases the energy yield. A technology optimally suited to flexible modules, thanks 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, pushed to the extreme in the Guardian (G) models where several bypass diodes are inserted thanks to an innovative cell layout. The new connection technology, together with the use of high efficiency silicon cells, make SX panels especially powerful and reliable

Features



- ✓ High resistance to mechanical stresses thanks to the thin wires thick mesh on the cell surface
- ✓ Flexible and lightweight (2.2 kg/m²)
- ✓ Completely waterproof and resistant to salt water
- ✓ Thin (less than 2 mm)
- ✓ 5 year warranty against manufacturing defects
- ✓ Positive power tolerance (0%, +5%)
- ✓ Integrated bypass diodes to minimise output losses associated with partial shading
- ✓ Up to nine bypass diodes in the Guardian models, to fight even better the effects of shadows
- ✓ Available with different front sheets, many fixing and electrical wiring options
- ✓ White, black or transparent back sheet
- ✓ Adaptable to any battery: from 5 to 48 volt, lead-acid or lithium
- ✓ Designed and manufactured in Italy



SOLBIANFLEX SX

SX series **DAY4** inside

Day4Energy's laminated cell with patented Stay-powerful™ Technology, uniquely interconnects solar cells and collects the power they generate. This innovation is a direct replacement of the conventional, high temperature solar cell soldering process. Cells are connected using a matrix of electrically-efficient copper wires coated with a custom, low melting point alloy. This technology guarantees high efficiency in low light conditions and wires act as a "bridge" across any interruption: if a microcrack occurs, the electron flow continues.

Day4Energy™ cell



On the front of the cell electrically-efficient copper wires form a mesh that creates a very high number of connection points.

High efficiency also in low light.



The unique rear pattern offers an optimal contact ground and allows for complex geometries.

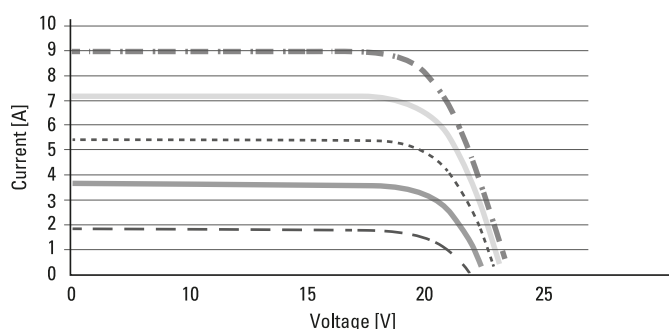
Broad customization capabilities and long-lasting electric contacts.

Datasheet

	SX 236	SX 176 L	SX 176 Q	SX 176 G	SX 158	SX 118	SX 118 G	SX 78 L	SX 78 Q	SX 68
Maximum power (0%, +5%) [W]	236	176	176	176	158	118	118	78	78	68
Length Y [mm]	1364	1523	1046	1075	1364	1046	754	1364	728	1205
Width X [mm]	994	683	994	994	683	683	1016	365	683	365
Thickness [mm]	2	2	2	2	2	2	2	2	2	2
Weight [kg]	3.00	2.40	2.40	2.40	2.10	1.70	1.80	1.20	1.20	1.10
Max power Voltage Vmp [V]	25.9	19.3	19.3	19.3	17.4	13.0	13.0	8.6	8.6	7.5
Max power Current Imp [A]	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Open circuit voltage Voc [V]	32.0	24.0	24.0	24.0	21.3	16.0	16.0	10.7	10.7	9.3
Short circuit current Isc [A]	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
NOCT [°C]	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2
Operating temperature [°C]	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85
Temp. coeff. Pmax [%/°C]	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
Temp. coeff. Voc [%/°C]	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32
Temp. coeff. Isc [%/°C]	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Columns x Rows (cells n°)	6x8 (48)	4x9 (36)	6x6 (36)	6x6 (36)	4x8 (32)	4x6 (24)	6x4 (24)	2x8 (16)	4x4 (16)	2x7 (14)
Maximum system voltage [V]	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Maximum reverse current [A]	12 A	12 A	12 A	12 A	12 A	12 A	12 A	12 A	12 A	12 A
Safety class	A	A	A	A	A	A	A	A	A	A

* 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.

Electrical Characteristics

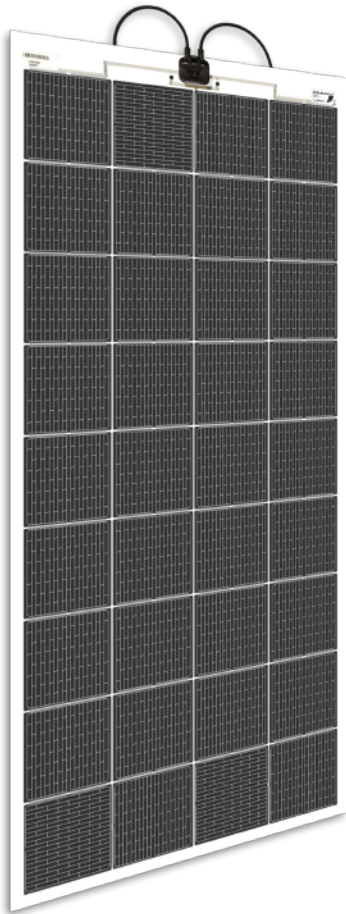


Certifications



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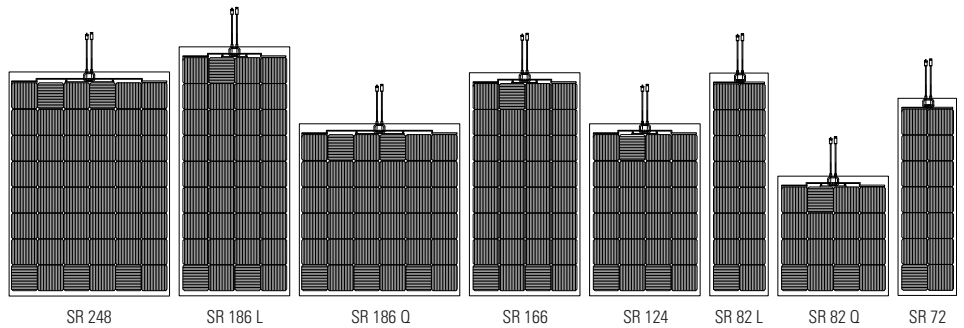
Sailectron GmbH | Graz, AUSTRIA | DE: +49 1520 4096530 | AT: +43 650 5709366 | info@solbian.solar | www.solbian.solar



Super Rugged Series.

SR series

MADE IN ITALY

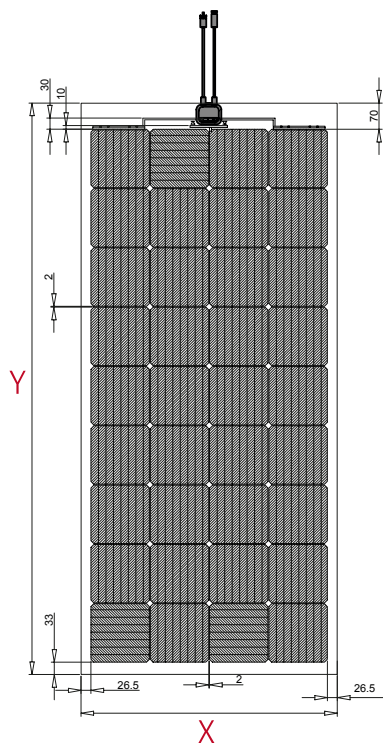
The monocrystalline high efficiency SR cells are sandwiched by two patented metallic grids. The grid on the front is carefully tailored to optimize the current harvesting, while the one behind the cell offers strong mechanical support.

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 flexible solar panels.

Features

- ✓ High tolerance to cracks and bending thanks to the double shield protecting the cell
- ✓ Flexible and lightweight (2.2 kg/m²)
- ✓ Completely waterproof and resistant to salt water
- ✓ Thin (less than 2 mm)
- ✓ 5 year warranty against manufacturing defects
- ✓ Positive power tolerance (0%, +5%)
- ✓ Integrated bypass diodes to minimise output losses associated with partial shading
- ✓ Available with different front sheets, many fixing and electrical wiring options
- ✓ White, black or transparent back sheet
- ✓ Adaptable to any battery: from 5 to 48 volt, lead-acid or lithium
- ✓ Designed and manufactured in Italy





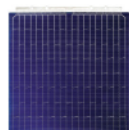
SOLBIANFLEX SR

SR series MERLINSOLAR inside

At the core of Merlin Solar's patented technology is an innovative pair of metal grids that serve as intra-cell and inter-cell interconnects.

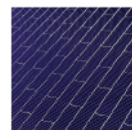
The same copper and solder as any other bus bar cell are used, but 20 redundant lines and 180+ interconnects, not only enable to extract more power but also dramatically improve the reliability, performance and ruggedness of the solar panels.

Merlin Solar™ cell



The metallic grid on the front of the cell is specifically designed to maximize the current harvesting.

More power and high reliability.



On the rear of the cell a second grid provides extreme resistance to cracks and bendings.

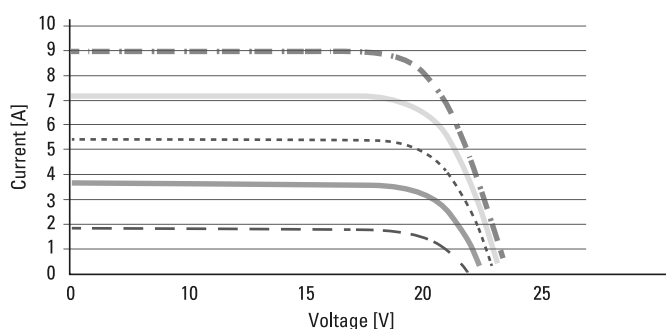
All the ruggedness and flexibility you need.

Datasheet

	SR 248	SR 186 L	SR 186 Q	SR 166	SR 124	SR 82 L	SR 82 Q	SR 72
Maximum power (0%, +5%) [W]	248	186	186	166	124	82	82	72
Length Y [mm]	1364	1523	1046	1364	1046	1364	728	1205
Width X [mm]	994	683	994	683	683	365	683	365
Thickness [mm]	2	2	2	2	2	2	2	2
Weight [kg]	3.00	2.40	2.40	2.10	1.70	1.20	1.20	1.10
Max power Voltage Vmp [V]	27.0	20.2	20.2	18.0	13.5	8.9	8.9	7.8
Max power Current Imp [A]	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
Open circuit voltage Voc [V]	32.0	24.0	24.0	21.3	16.0	10.7	10.7	9.3
Short circuit current Isc [A]	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
NOCT [°C]	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2
Operating temperature [°C]	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85
Temp. coeff. Pmax [%/°C]	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
Temp. coeff. Voc [%/°C]	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32
Temp. coeff. Isc [%/°C]	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Columns x Rows (cells n°)	6x8 (48)	4x9 (36)	6x6 (36)	4x8 (32)	4x6 (24)	2x8 (16)	4x4 (16)	2x7 (14)
Maximum system voltage [V]	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Maximum reverse current [A]	12 A	12 A	12 A	12 A	12 A	12 A	12 A	12 A
Safety class	A	A	A	A	A	A	A	A

* 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.

Electrical Characteristics



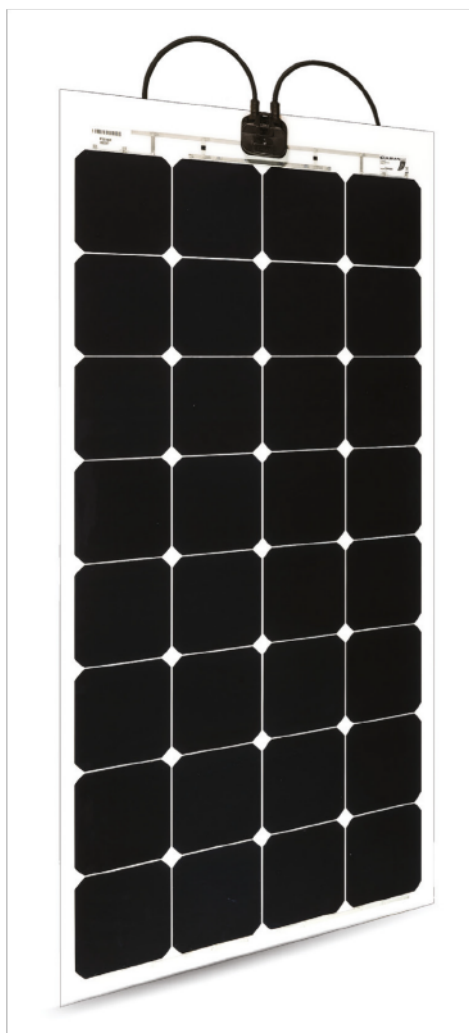
- - - - 100 W/m²
 - - - - 200 W/m²
 - - - - 400 W/m²
 - - - - 600 W/m²
 - - - - 800 W/m²
 - - - - 1000 W/m²

Certifications



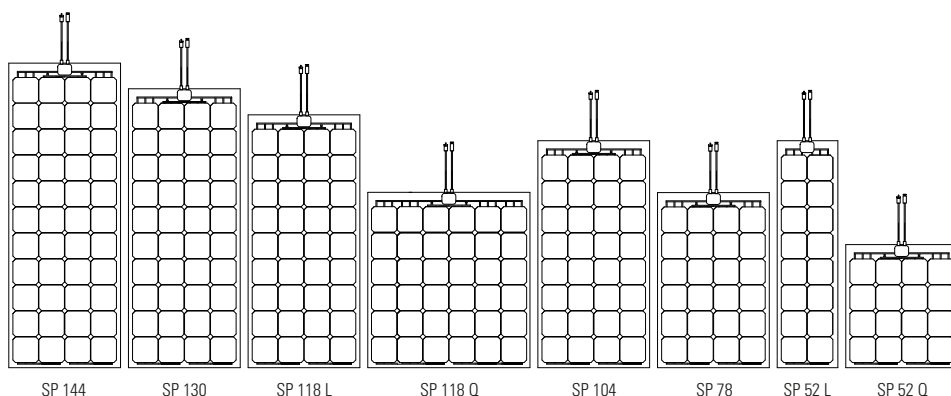
SOLBIAN

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Power at the highest level. SP series

MADE IN ITALY

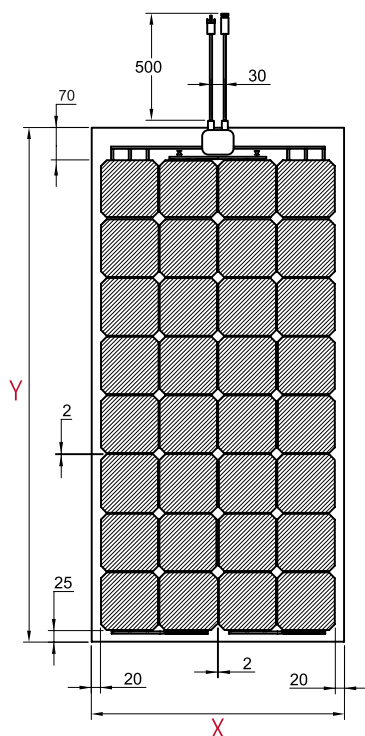



SP series is at the top of the range, thanks to the use of selected SunPower™ monocrystalline silicon cells, reaching a record 24% conversion of sunlight into electricity and with a pleasant appearance thanks to the electrical contacts hidden on the back. SunPower™ cells represent the most advanced technology 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 the appearance of these cells is one of the symbols of 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
- ✓ Flexible and lightweight (2.2 kg/m²)
- ✓ Completely waterproof and resistant to salt water
- ✓ Thin (less than 2 mm)
- ✓ IEC 61215, IEC 61730 and IEC 61701 certified
- ✓ 5 year warranty against manufacturing defects
- ✓ Integrated bypass diodes to minimise output losses associated with partial shading
- ✓ Available with different front sheets, many fixing and electrical wiring options
- ✓ White, black or transparent back sheet
- ✓ Adaptable to any battery: from 5 to 48 volt, lead-acid or lithium
- ✓ Designed and manufactured in Italy

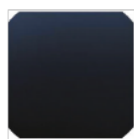


SOLBIANFLEX SP

SP series SUNPOWER® inside

SunPower™ 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 crystalline cells.

Back-contact Cell



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



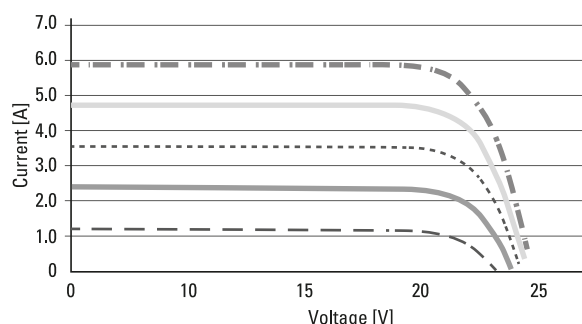
Solid copper backing.
Massive strength and resistance to corrosion.

Datasheet

	SP 144	SP 130	SP 118 L	SP 118 Q	SP 104	SP 78	SP 52 L	SP 52 Q
Maximum power (±5%) [W]	144	130	118	118	104	78	52	52
Length Y [mm]	1490	1363	1236	855	1109	855	1109	601
Width X [mm]	546	546	546	800	546	546	292	546
Thickness [mm]	2	2	2	2	2	2	2	2
Weight [kg]	1.90	1.70	1.60	1.60	1.40	1.10	0.80	0.80
Max power Voltage Vmp [V]	25.3	22.8	20.7	20.7	18.2	13.7	9.1	9.1
Max power Current Imp [A]	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Open circuit voltage Voc [V]	30.0	27.3	24.5	24.5	21.8	16.4	10.9	10.9
Short circuit current Isc [A]	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
NOCT [°C]	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2	45 ± 2
Operating temperature [°C]	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85
Temp. coeff. Pmax [%/°C]	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35
Temp. coeff. Voc [%/°C]	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
Temp. coeff. Isc [%/°C]	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Columns x Rows (cells n°)	4x11 (44)	4x10 (40)	4x9 (36)	6x6 (36)	4x8 (32)	4x6 (24)	2x8 (16)	4x4 (16)
Maximum system voltage [V]	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Maximum reverse current [A]	12 A	12 A	12 A	12 A	12 A	12 A	12 A	12 A
Safety class	A	A	A	A	A	A	A	A

* 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.

Electrical Characteristics



Certifications



Price list

SOLBIAN PRICE LIST excl. VAT
VALID FROM JANUARY 2021



Power at the highest level.

SP Series

The SP Series is our top-of-the-range product, thanks to the use of selected SunPower™ back-contact monocrystalline silicon cells, reaching a record 24% conversion of sunlight into electricity. Their electrical contacts hidden on the back of the cell guarantee a pleasant aesthetical appearance, the 5" cell size makes them highly suitable for complicated custom shapes. The use of the most advanced technology makes Solbianflex SP the highest-efficiency flexible panels currently available.

MADE IN ITALY



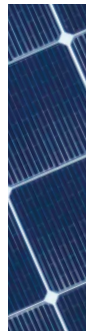
	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (Wp)	Rated Voltage (V)	Rated Current (A)	N° of Cells	Price €/Wp	Price € (excluding VAT)
SP 144	1490	546	2	1.9	144	25.3	5.7	44	8.25	1188.00
SP 130	1363	546	2	1.7	130	22.8	5.7	40	8.25	1072.50
SP 118 L	1236	546	2	1.6	118	20.7	5.7	36	8.25	973.50
SP 118 Q	855	800	2	1.6	118	20.7	5.7	36	8.25	973.50
SP 104	1109	546	2	1.4	104	18.2	5.7	32	8.25	858.00
SP 78	855	546	2	1.1	78	13.7	5.7	24	8.25	643.50
SP 52 L	1109	292	2	0.8	52	9.1	5.7	16	8.25	429.00
SP 52 Q	601	546	2	0.8	52	9.1	5.7	16	8.25	429.00

Super Rugged Series.

SR Series

The monocrystalline high-efficiency SR cells are sandwiched by two patented metallic grids. While the front grid is carefully tailored to optimize current harvesting, the one behind the cell offers strong mechanical support. The grids essentially form a double shield, acting as a conductive reinforcement of the solar cell. Extreme crack and bend tolerance are built in, enabling novel crystalline silicon architectures. A guaranty of high efficiency and durability unmatched in flexible solar panels.

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	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (Wp)	Rated Voltage (V)	Rated Current (A)	N° of Cells	Price €/Wp	Price € (excluding VAT)
SR 248	1364	996	2	3	248	27.0	9.2	48	6.21	1 540.88
SR 186 L	1523	683	2	2.4	186	20.2	9.2	36	6.21	1155.06
SR 186 Q	1046	996	2	2.4	186	20.2	9.2	36	6.21	1 155.06
SR 166	1364	683	2	2.1	166	18.0	9.2	32	6.21	1 030.86
SR 108	1046	683	2	1.7	124	13.5	9.2	24	6.21	770.04
SR 82 L	1364	365	2	1.2	82	8.9	9.2	16	6.21	509.22
SR 82 Q	728	683	2	1.2	82	8.9	9.2	16	6.21	509.22
SR 72	1205	365	2	1.1	72	7.8	9.2	14	6.21	447.12

Aesthetics, reliability and price.

SX Series

The monocrystalline SX cells are electrically connected using ultra-thin copper wires which form a very fine mesh on the cell surface, resulting in thousands of contact points. This alternative to the standard bus-bar method allows a higher module power and increases the energy yield. A technology optimally suited for flexible modules, due to its intrinsic insensitivity to micro-cracks, which are the most common cause of energy loss in solar panels. Another advantage is reduced sensitivity to shading, pushed to the extreme with the Guardian (G) Models where additional bypass diodes can be inserted thanks to an innovative cell layout. layout. This new connection technology together with the use of highly efficient silicon cells make SX panels a great choice in applications without high mechanical load.

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	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (Wp)	Rated Voltage (V)	Rated Current (A)	N° of Cells	Price €/Wp	Price € (excluding VAT)
SX 236	1364	996	2	3	236	25.9	9.1	48	4.67	1 102.12
SX 176 L	1523	683	2	2.4	176	19.3	9.1	36	4.67	821.92
SX 176 Q	1046	996	2	2.4	176	19.3	9.1	36	4.67	821.92
SX 176 G*	1046	996	2	2.4	176	19.3	9.1	36	6.21	1 092.96
SX 158	1364	683	2	2.1	158	17.4	9.1	32	4.67	737.86
SX 118	1046	683	2	1.7	118	13.0	9.1	24	4.67	551.06
SX 118 G*	726	996	2	1.7	118	13.0	9.1	24	6.21	732.78
SX 78 L	1364	365	2	1.2	78	8.6	9.1	16	4.67	364.26
SX 78 Q	728	683	2	1.2	78	8.6	9.1	16	4.67	364.26
SX 68	1205	365	2	1.1	68	7.5	9.1	14	4.67	317.56

More power with bifacial cells.

SXX Series

The SXX Series comes at the same size of SX panels but generates significantly more power, thanks to its silicon-based heterojunction (HJT) solar cells which offer more than 24% efficiency. When compared with conventional panels of the same nominal power, SXX can harvest more energy due to HJT cells being bifacial, an important feature especially when panels are encapsulated in a transparent sandwich and installed with their backside (which can reach an additional 80% of the indicated front power) exposed to indirect light. In addition, HJT cells perform better than others in hot climates, thanks to very low temperature coefficients. SXX should only be used in applications with low mechanical loads.

MADE IN ITALY



	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (Wp)	Rated Voltage (V)	Rated Current (A)	N° of Cells	Price €/Wp	Price € (excluding VAT)
SXX 258	1364	996	2	3	258	30.0	8.6	48	6.21	1 602.18
SXX 194 L	1523	683	2	2.4	194	22.6	8.6	36	6.21	1 204.74
SXX 194 Q	1046	996	2	2.4	194	22.6	8.6	36	6.21	1 207.74
SXX 194 G*	1046	996	2	2.4	194	22.6	8.6	36	7.25	1 406.50
SXX 172	1364	683	2	2.1	172	20.0	8.6	32	6.21	1 068.12
SXX 130	1046	683	2	1.7	130	15.1	8.6	24	6.21	807.30
SXX 130 G*	726	996	2	1.7	130	15.1	8.6	24	7.25	942.50
SXX 86 L	1364	365	2	1.2	86	10.0	8.6	16	6.21	534.06
SXX 86 Q	728	683	2	1.2	86	10.0	8.6	16	6.21	534.06
SXX 76	1205	365	2	1.1	76	8.8	8.6	14	6.21	471.96

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We reserve the right to make technical and price changes without prior notice.

*G = „Guardian“- layout with additional bypass diodes