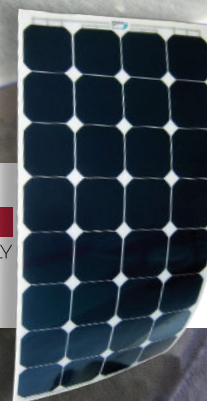


Price List 2020

SOLBIAN
FREEDOM POWERED BY THE SUN


MADE IN ITALY

SOLBIAN.EU



Power at the highest level.

SP Series



SP series is at the top of the range, thanks to the use of selected back-contact 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. Back-contact cells represent the most advanced technology on the market, and make the SP Solbian panels the highest-efficiency flexible panels.

	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (W)	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	1152
SP 130	1363	546	2	1.7	130	22.8	5.7	40	8	1040
SP 118 L	1236	546	2	1.6	118	20.7	5.7	36	8	944
SP 118 Q	855	800	2	1.6	118	20.7	5.7	36	8	944
SP 104	1109	546	2	1.4	104	18.2	5.7	32	8	832
SP 78	855	546	2	1.1	78	13.7	5.7	24	8	624
SP 52 L	1109	292	2	0.8	52	9.1	5.7	16	8	416
SP 52 Q	601	546	2	0.8	52	9.1	5.7	16	8	416

Super Rugged Series.

SR Series



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.

	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (W)	Rated Voltage (V)	Rated Current (A)	N. of Cells	Price €/Wp	Price € (excluding VAT)
SR 216	1364	996	2	3	216	25.1	8.6	48	5.5	1188
SR 160 L	1523	683	2	2.4	160	18.6	8.6	36	6	960
SR 160 Q	1046	996	2	2.4	160	18.6	8.6	36	6	960
SR 144	1364	683	2	2.1	144	16.7	8.6	32	6	864
SR 108	1046	683	2	1.7	108	12.6	8.6	24	6	648
SR 72 L	1364	365	2	1.2	72	8.4	8.6	16	6	432
SR 72 Q	728	683	2	1.2	72	8.4	8.6	16	6	432
SR 62	1205	365	2	1.1	62	7.2	8.6	14	6	372

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 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, 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, 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.

	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (W)	Rated Voltage (V)	Rated Current (A)	N. of Cells	Price €/Wp	Price € (excluding VAT)
SX 216	1364	996	2	3	216	25.1	8.6	48	4	864
SX 160 L	1523	683	2	2.4	160	18.6	8.6	36	4.5	720
SX 160 Q	1046	996	2	2.4	160	18.6	8.6	36	4.5	720
SX 160 G	1046	996	2	2.4	160	18.6	8.6	36	6	960
SX 144	1364	683	2	2.1	144	16.7	8.6	32	4.5	648
SX 108	1046	683	2	1.7	108	12.6	8.6	24	4.5	486
SX 108 G	726	996	2	1.7	108	12.6	8.6	24	6	648
SX 72 L	1364	365	2	1.2	72	8.4	8.6	16	4.5	324
SX 72 Q	728	683	2	1.2	72	8.4	8.6	16	4.5	324
SX 62	1205	365	2	1.1	62	7.2	8.6	14	4.5	279

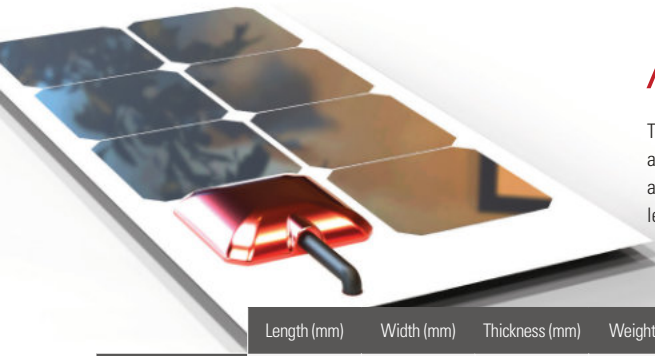
More power with bifacial cells.

SXX Series



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 panels 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.

	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (W)	Rated Voltage (V)	Rated Current (A)	N. of Cells	Price €/Wp	Price € (excluding VAT)
SXX 240	1364	996	2	3	240	27.9	8.6	48	5.5	1320
SXX 180 L	1523	683	2	2.4	180	20.9	8.6	36	6	1080
SXX 180 Q	1046	996	2	2.4	180	20.9	8.6	36	6	1080
SXX 180 G	1046	996	2	2.4	180	20.9	8.6	36	7	1260
SXX 160	1364	683	2	2.1	160	18.6	8.6	32	6	960
SXX 120	1046	683	2	1.7	120	14	8.6	24	6	720
SXX 120 G	726	996	2	1.7	120	14	8.6	24	7	840
SXX 80 L	1364	365	2	1.2	80	9.3	8.6	16	6	480
SXX 80 Q	728	683	2	1.2	80	9.3	8.6	16	6	480
SXX 70	1205	365	2	1.1	70	8.1	8.6	14	6	420



ALLinONE Solution

MADE IN ITALY

The ALLinONE solution: solar panel + charge controller. To make solar energy simpler, suitable for the enthusiast as well as the professional user. All the electronics you need are already packed into the rugged waterproof box: a sophisticated MPPT controller capable of boosting the voltage to match with your battery pack. Available for lead and lithium batteries.

	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (W)	Battery Voltage (V)	Maximum Current (A)	N. of Cells	Price € (excluding VAT)
SP 60 AiO	728	546	15	1.1	60	12/24	5/2.5	19	540
SP 47 L AiO	1109	292	15	0.9	47	12/24	4/2	15	400
SP 47 Q AiO	601	546	15	0.9	47	12/24	4/2	15	400
SP 23 AiO	600	292	15	0.6	23	12/24	2/1	7	200

	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (W)	Battery Voltage (V)	Maximum Current (A)	N. of Cells	Price € (excluding VAT)
SR 104 AiO	1046	683	15	1.7	104	12/24	8.6/4.3	23	650
SR 68 L AiO	1364	365	15	1.3	68	12/24	5.6/2.8	15	440
SR 68 Q AiO	728	683	15	1.3	68	12/24	5.6/2.8	15	440

	Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Peak Power (W)	Battery Voltage (V)	Maximum Current (A)	N. of Cells	Price € (excluding VAT)
SX 104 AiO	1046	683	15	1.7	104	12/24	8.6/4.3	23	490
SX 68 L AiO	1364	365	15	1.3	68	12/24	5.6/2.8	15	340
SX 68 Q AiO	728	683	15	1.3	68	12/24	5.6/2.8	15	340



Embed solar in your structure

Surface Mounting (SM) Option

SolbianfexSM 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. SM panels are offered with ready-to-use structural adhesive.

SM option is free of charge for the SP and SR series. A price increase of 20% will be calculated if requested on SX series. SM option is not available on SXX series.



Where quality meets beauty

Invisible Solar Power (ISP) option

The top SP series can be offered with a completely new look. Thanks to different masking technologies a rich portfolio of graphics will change your idea of solar panel. Solid colors, materials, geometric patterns; the ISP option broadens the meaning of customization in the solar field.

ISP option is available only for the SP series panels. The price increase depends on the graphics choice, within a 25% to 100% range.



The most advanced solar USB charger in the market

Energy Flyer

Energy Flyer is the most advanced solar USB charger in the market. The perfect choice for people who need energy without compromises, in the most critical missions, for leisure or work.

Price (excluding VAT) **€ 99.00**

MPPT Controllers

	Type	Bluetooth	MAX Panel Power	Min Panel Voltage	MAX Panel Voltage	MAX Current	Battery Type*	Battery Voltage	Price € (excluding VAT)
WESTERN WMARINE10	U/D	N	120 W (12 V) / 220 W (24 V)	5 V (12 V) / 10 V (24 V)	40 V	10 A	PB/LI	12 / 24	151
WESTERN WRM20	D	N	310 W (12 V) / 620 W (24 V)	18 V (12 V) / 32 V (24 V)	100 V	20 A	PB/LI	12 / 24	153
WESTERN WRM20+ (WDR COMPATIBLE)	D	N	310 W (12 V) / 620 W (24 V)	18 V (12 V) / 32 V (24 V)	100 V	20 A	PB/LI	12 / 24	181
WESTERN WRM30+ (WDR COMPATIBLE)	D	N	450 W (12 V) / 900 W (24 V) / 1800 W (48 V)	18 V (12 V) / 32 V (24 V) / 62 V (48 V)	150 V	30 A	PB/LI	12 / 24 / 48	376
WESTERN WRM15 DUALB-E (2 BATT.)	D	Y	250 W (12 V) / 500 W (24 V)	18 V (12 V) / 32 V (24 V)	100 V	15 A	PB/LI	12 / 24	231
WESTERN WRM15 DUALB (2 BATT.)	D	Y	250 W (12 V) / 500 W (24 V)	18 V (12 V) / 32 V (24 V)	100 V	15 A	PB/LI	12 / 24	262
WESTERN WDR SYSTEM MONITOR	Remote monitoring - local and cloud interface								309
GENASUN GV-10/12	D	N	160 W	18 V	34 V	10,5 A	PB	12	109
GENASUN GV-10/12-14-16	D	N	120 W / 140 W / 160 W	16 V / 18 V / 20 V	34 V	10,5 A	LI	12,5 / 14,2 / 16,7	147
GENASUN GV-BOOST 8/12 ***	U	N	105 W	5 V	60 V	8 A	PB	12	129
GENASUN GV-BOOST 8/14	U	N	105 W	5 V	60 V	8 A	LI	14,2	163
GENASUN GV-BOOST 8/24	U	N	210 W	5 V	60 V	8 A	PB	24	174
GENASUN GV-BOOST 8/28	U	N	210 W	5 V	60 V	8 A	LI	28,4	207
GENASUN GV-BOOST 8/48	U	N	350 W	5 V	60 V	8 A	PB	48	174
GENASUN GV-BOOST 8/56	U	N	350 W	5 V	60 V	8 A	LI	56,8	207
VICTRON BLUESOLAR 75/15	D	Y**	200 W (12 V) / 400 W (24 V)	18 V (12 V) / 32 V (24 V)	75 V	15 A	PB/LI	12 / 24	103
VICTRON BLUESOLAR 100/30	D	Y**	440 W (12 V) 880 W (24 V)	18 V (12 V) / 32 V (24 V)	100 V	30 A	PB/LI	12 / 24	207
VICTRON BLUESOLAR 150/35	D	Y**	500 W (12 V) / 1000 W (24 V) / 2000 W (48 V)	18 V (12 V) / 32 V (24 V) / 62 V (48 V)	150 V	35 A	PB/LI	12 / 24 / 48	345
VICTRON BLUESOLAR 100/50	D	Y**	700 W (12 V) / 1400 W (24 V)	18 V (12 V) / 32 V (24 V)	100 V	50 A	PB/LI	12 / 24	345
VICTRON SMARTSOLAR 75/15	D	Y	200 W (12 V) / 400 W (24 V)	18 V (12 V) / 32 V (24 V)	75 V	15 A	PB/LI	12 / 24	138
VICTRON SMARTSOLAR 100/30	D	Y	440 W (12 V) 880 W (24 V)	18 V (12 V) / 32 V (24 V)	100 V	30 A	PB/LI	12 / 24	264
VICTRON SMARTSOLAR 150/35	D	Y	500 W (12 V) / 1000 W (24 V) / 2000 W (48 V)	18 V (12 V) / 32 V (24 V) / 62 V (48 V)	150 V	35 A	PB/LI	12 / 24 / 48	379
VICTRON SMARTSOLAR 100/50	D	Y	700 W (12 V) / 1400 W (24 V)	18 V (12 V) / 32 V (24 V)	100 V	50 A	PB/LI	12 / 24	379
VICTRON VE.DIRECT BLUETOOTH DONGLE	Tool allowing Victron Bluesolar to communicate with a smartphone								57
VICTRON SMART BATTERY SENSE	A wireless battery voltage and temperature sensor for Victron MPPT Solar Chargers.								46

Legend: U= Step up; D= Step down; U/D= Mixed

* Lithium batteries must have the integrated Battery Management System (BMS)

** With optional bluetooth accessory

*** The Genasun GV-BOOST controllers are available in waterproof version: add € 40

Accessories

	Description	Price € (excluding VAT)
Adhesive	Double-sided adhesive tape for a permanent bonding	30
Steel eyelets	Eyelets realized on the edges of the panel	20
LOXX fastener	Strap buttons that allow easy installation and removal of the panel (each)	8
Zipper	Zipper sewn on the edge of the panel	90
Stiffening	Mechanical stiffening via fiberglass bars or Forex sheets	45
Connectors	To realize the electrical connection to the junction box (a pair)	8
Y connectors	To connect in parallel two panels (each)	10
Diode connector	Blocking diode for parallel panels connection (each)	8
Deck seal	With two connectors incorporated, allows a removable installation, with a safe and elegant solution for the cables	45
Cables	Extension cables for the wiring (€/meter)	2
Circuit breaker	To protect your circuit. Available in different sizes (20/40/50 A)	20