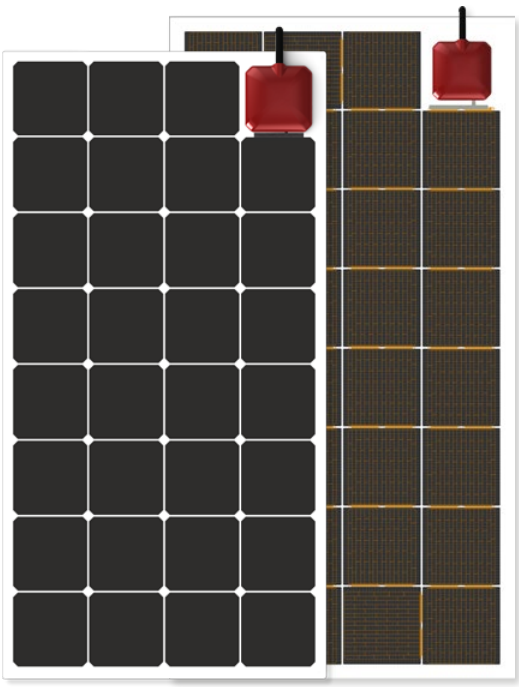
SOLBIAN

ALLinONE Solution 2.0

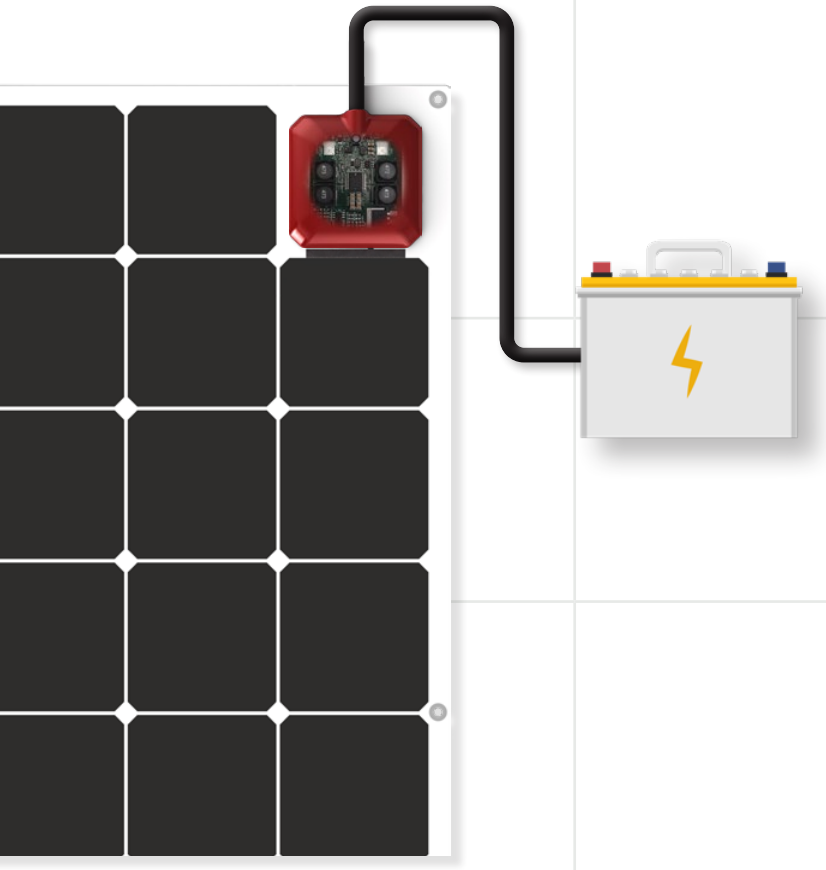
CONNECT

Tailor your solar experience

Designed for those who demand both performance and personalization, the ALLinONE Solution 2.0 Connect offers unparalleled flexibility. Equipped with advanced electronics that enable communication with the integrated charge controller. Choose from a variety of solar cells, panel sizes, fixing methods, colors, and more to create the perfect setup for your needs.

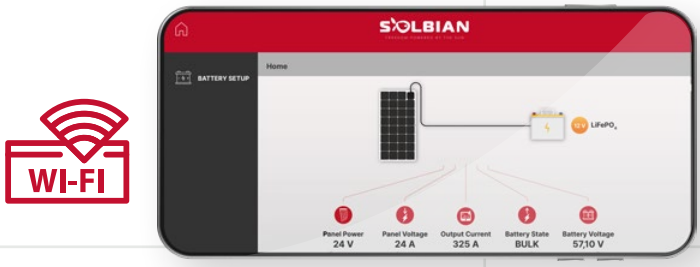


Made in Italy



New technology

The integrated MPPT Boost/Buck charge controller, housed in a sleek box that replaces one solar cell, features upgraded electronics for enhanced efficiency and reliability. Connecting the solar panel to your battery is all you need for seamless operation, no additional components required. Equipped with Wi-Fi for remote management via a web panel, the improved electronics optimize energy management to deliver maximum performance with minimal effort.



Web interface

With the ALLinONE Solution 2.0 Connect, you can now stay connected to your solar photovoltaic system like never before.

Thanks to the new web interface, you can monitor real-time performance and adjust settings with ease.

Whether you're tracking energy output or fine-tuning your system, the web interface gives you complete control and insight from any device, ensuring your panels are always operating at peak efficiency.

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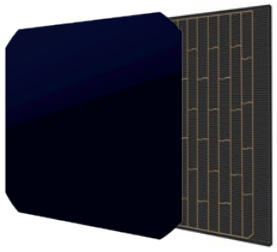
Customization

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.

Size and shape

All our products can have customized size:

- Width: 150 mm - 1000 mm
- Lenght: 150 mm - 1700 mm

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

Finishing

Glossy | Matte | Textured

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

Fixing options

Zip and touch fastener | Eyelets | Adhesive | LOXX® snap fasteners

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Technical data

		SP 31 AiO	SP 19 AiO	SP 15 L AiO	SP 15 Q AiO	SP 7 AiO	SR 19 AiO	SR 15 L AiO	SR 15 Q AiO
SOLAR PANEL	Product	Semiflex lightweight All-In-One 2.0 Connect solar panel							
	Power at STC [W] ①	110	67	53	53	25	95	75	75
	Power tolerance [%]	± 3							
	Length [mm]	1089	708	1089	581	581	877	1359	716
	Width [mm]	546	546	292	546	292	691	370	691
	Thickness (Electronic excluded) [mm]	2							
	Weight [kg]	1.6	1.1	1	1	0.6	1.7	1.4	1.4
	PV solar cells no.	31	19	15	15	7	19	15	15
	PV solar cells	SunPower Maxeon back contact ②					Merlin Solar grid technology		
	PV Solar cell efficiency [%]	Min 24.4					22.5+		
	Bypass diodes no. ③	2	2	1	1	1	2	2	1
	Minimum design load [Pa] ④	1600							
	Operating temperature [°C]	-40 / +85							
	Temp. coeff. Pmax [%/°C]	-0.27					-0.40		

CHARGE CONTROLLER	Technology	MPPT Buck/Boost
	Max. output current [A]	10
	Battery type	Lead-Acid, $LiFePO_4$
	Battery voltage [V]	12 / 24 (auto-detect)
	Charge profile	Programmable
	Efficiency [%]	95
	Night / Standby consumption [W]	0 / 0.7
	Electronic case dimensions [mm]	120 x 120 x 15 (L x W x H)
	Data communication	Built-in Wi-Fi connectivity for monitoring via a dedicated Web Panel

GENERAL SPECIFICATIONS	Connection	3 m bipolar cable, 2 × 2.5 mm^2, for outdoor use UV-resistant
	Environmental protection	IP 68
	Accessories	10 A fused terminal block, ring connectors
	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/m^2 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

rev. 21 01/10/2026

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