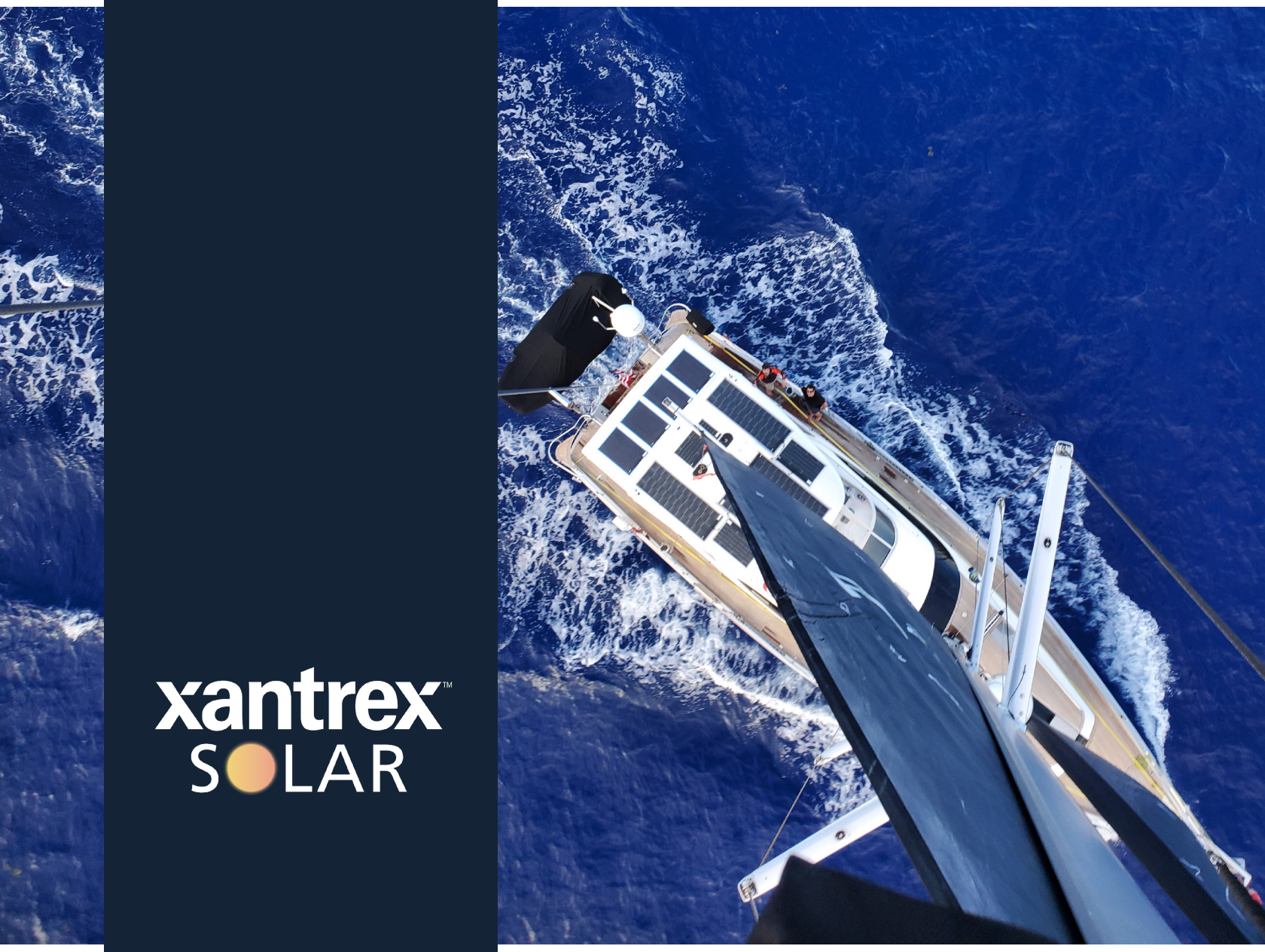
xantrex™
A MISSION CRITICAL ELECTRONICS BRAND

THE WORLD'S MOST DURABLE FLEXIBLE SOLAR PANELS



xantrex™
SOLAR

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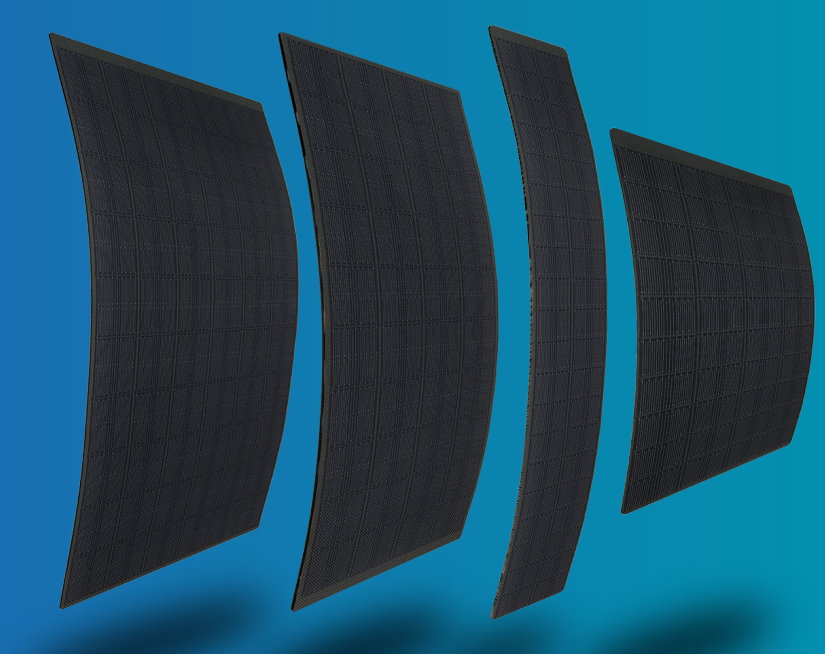
Available in

**115W, 220W,
115W Slim, 330W**



Maintenance free, renewable solutions to maximize battery life and prolong battery life

- **State-Of-The-Art Mesh-Grid Technology**
- **Enhanced Performance In Low Light Conditions**
- **Highly Durable In Extreme Weather Conditions**
- **Peel-And-Stick Drill-Less Mounting Installation**

Want a noise-free, emission-free, no-cost renewable source of energy to extend the runtime of your electronics and appliances? Xantrex Solar Max flexible panels convert the sun's rays into electricity through their state-of-the-art mesh grid technology and charge your RV's batteries, thereby prolonging your power supply.

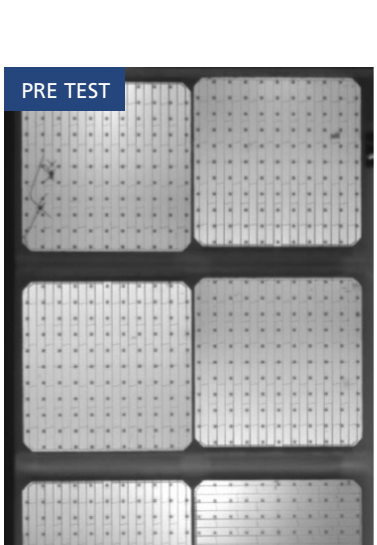
The Solar Max panels are extremely durable no matter what you throw at them, literally! In the next few pages, you will see the results of a variety of tests the Xantrex Solar Max panels were put through to demonstrate their high power output despite extensive damage.

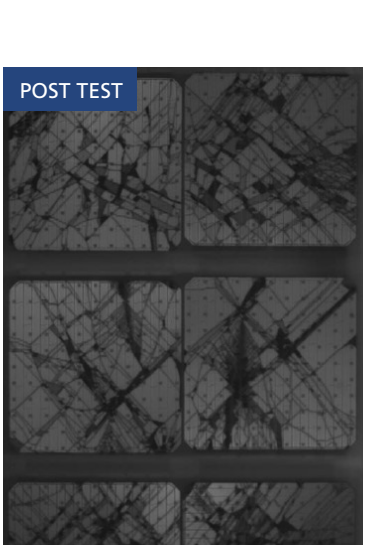
Dimensions

330 W	220 W	115 W	115 W Slim
71.6 x 41.5 x 0.08 in (1818 x 1054 x 2 mm)	71.6 x 28.8 x 0.08 in (1818 x 732 x 2 mm)	37.5 x 28.4 x 0.08 in (953 x 722 x 2 mm)	70.3 x 15.3 x 0.08 in (1789 x 390 x 2 mm)

Premium performance that exceed all expectations

Solar Max panels are designed to provide long-lasting durability and performance in the most extreme conditions.





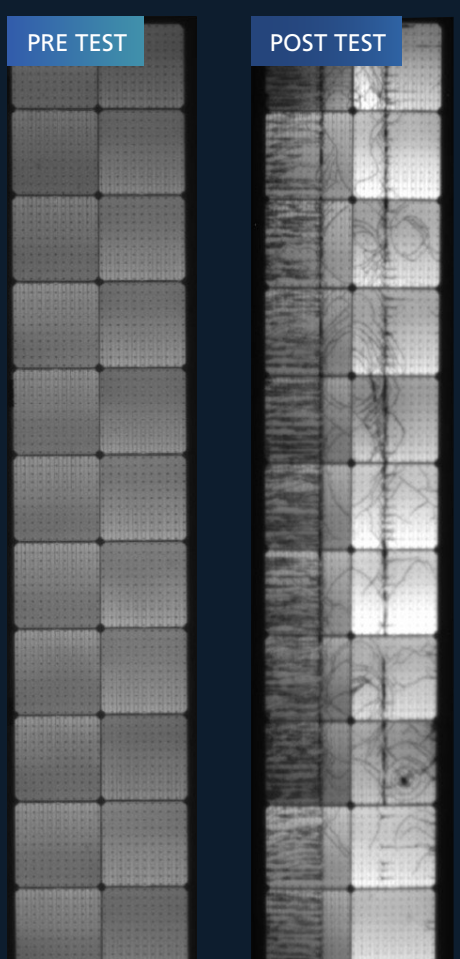
TEST INCLUDED

- Repeatedly throwing the panel on the ground
- Hitting the panel against a wall
- Severely bending the panel
- Walking/stomping on the panel

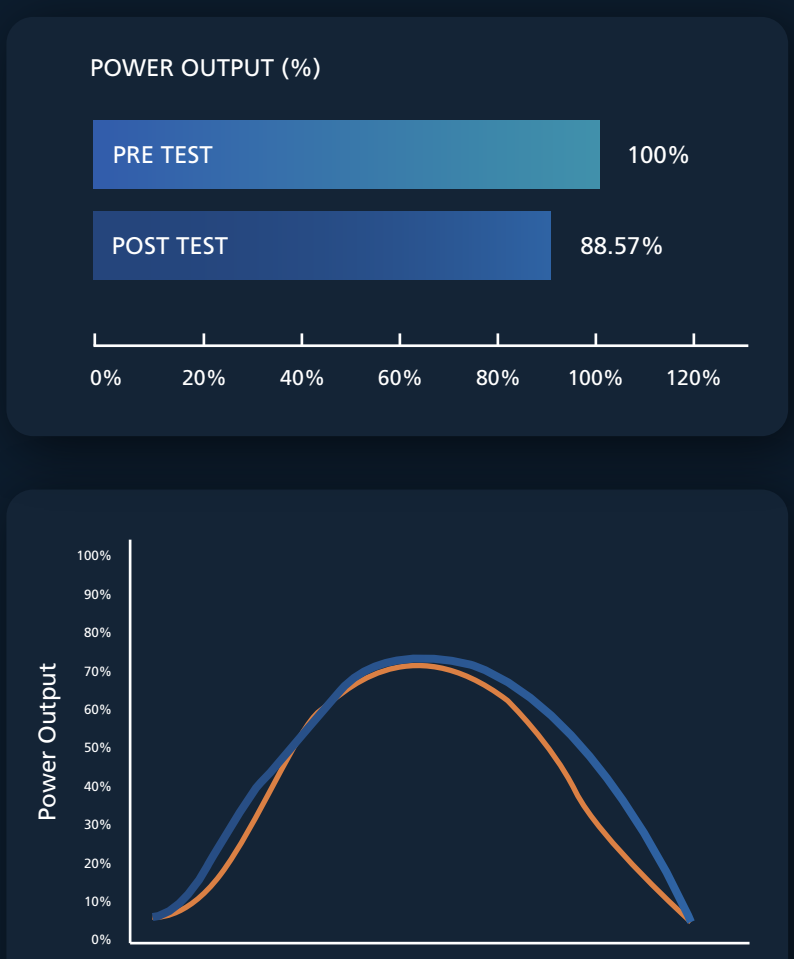
	Short Circuit Current (ISC)	Open-circuit Voltage (VOC)	Fill Factor (FF)	Max Power
PRE-TEST	9.098	3.809	0.775	26.852
POST-TEST	8.746	3.662	0.640	20.508
DROP IN OUTPUT %	3.87%	3.87%	17.36%	**23.63%**

RESULTS

Even after severe treatment, the Xantrex Solar Max Flex panel continued to work well and only dropped in power by 23% despite extreme cell cracks. Due to the Xantrex Solar Max panel's unique mesh-grid technology with over 2,100 points of contact in each cell, cell cracks have minimal impact on power output. Similar cell cracks experienced in a competitor's flex panels resulted in panel failure.



90% power output in spite of severe damage
(Including broken and shattered cells)



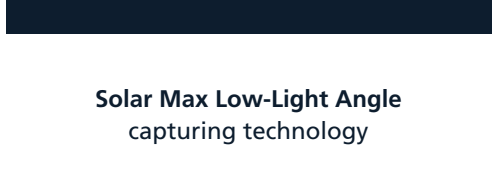
88% power output in spite of severe damage
(Including broken and shattered cells)

20% Bonus Energy Harvesting

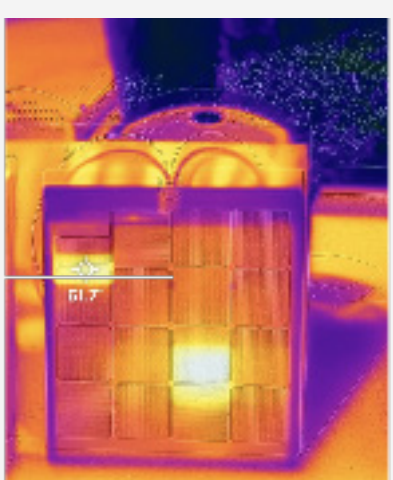
Customers can generate up to 20% additional energy over the course of a day by using panels with mesh-grid technology. These panels capture lower sun angles in the early morning and late afternoon.

This is very useful in maximizing energy harvest on limited roof-top space.

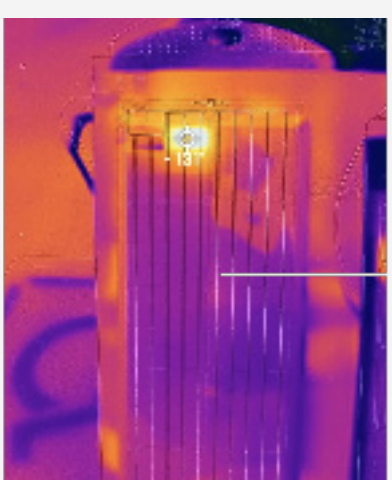
Solar Max Low-Light Angle
capturing technology



Competitor Flex Panels
with flat busbar technology



Competitor's Solar Panel



Xantrex Solar Panel

PARTIAL SHADING

Partial shading causes uneven distribution of current. Current cannot flow around the shaded cell, causing a significant build-up effect of current, overheating the cell and causing a burn damage/fire-hazard risk.

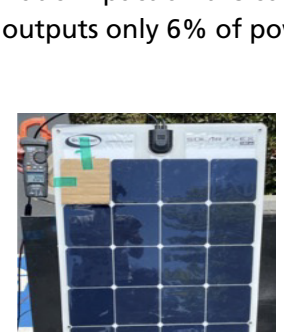
It becomes so hot you could cook an egg on it. **Unlike the Xantrex Solar Max**, the competitor's panel design does not prevent this partial-shading effect.

Superior Shading Performance

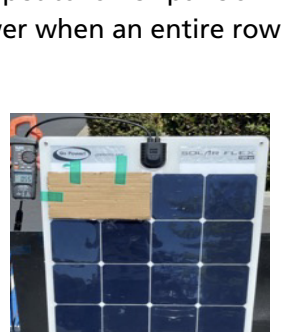
Competitor Flex Panels

- Shading has a dramatic impact on the competitor's flex panels
- Competitor panel outputs only 6% of power when an entire row of cells is shaded

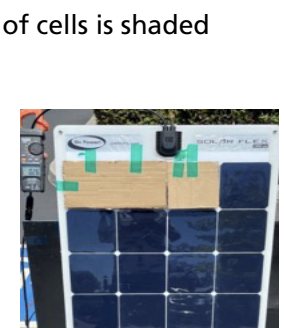
0 Cells Shaded



1 Cell Shaded



2 Cells Shaded



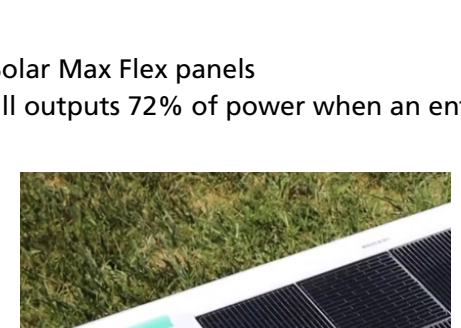
3 Cells Shaded

4 Cells Shaded

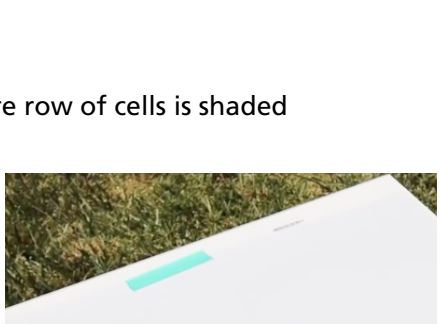
Solar Max Flex Panels

- Shading has limited impact on Solar Max Flex panels
- Xantrex Solar Max Flex panel still outputs 72% of power when an entire row of cells is shaded

0 Cells Shaded

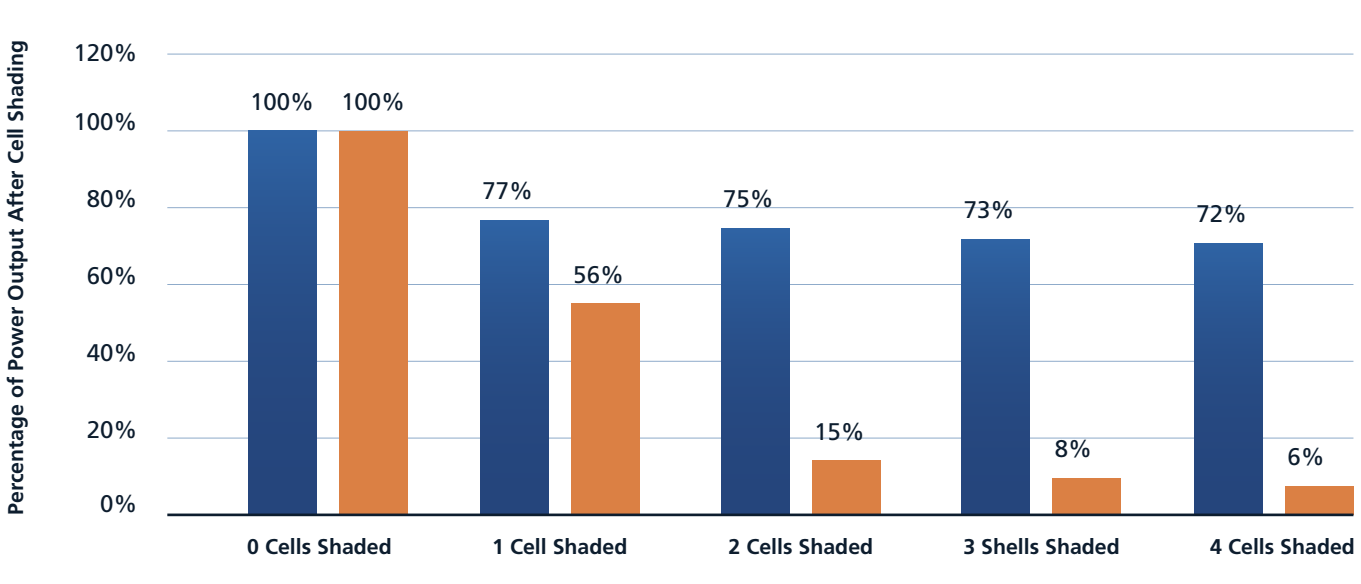


1 Cell Shaded



4 Cells Shaded

Xantrex Solar Max Flex vs Competitor Shading Performance



Xantrex Solar Max Flex panel still outputs 72% of power when an entire row of cells is shaded

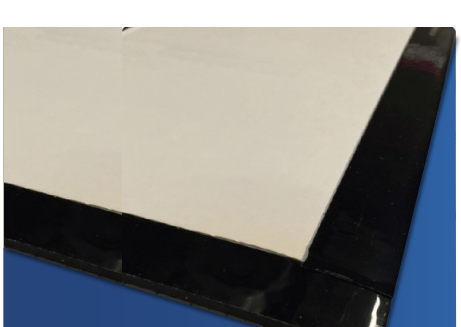
Competitor Flex panel outputs only 6% of power when an entire row of cells is shaded.

Peel & Stick Fast and Easy Installation

In spite of panel durability, RV owners can be hesitant about adding solar panels to their setup because they worry about how difficult and time consuming installation would be. That's where Xantrex Solar Max panels shine, thanks to their peel-and-stick design using premium 3M adhesive.

Xantrex Solar Max flexible panels use state-of-the-art mesh grid technology with over 2100 points of contact per cell, allowing the panel to flex up to 180 degrees without impacting power output. This feature allows RVers to install the panel on curved RV roof tops.

There is no need to drill holes in your RV! All you have to do is peel off the liner of the panel and stick it to a clean surface, whether it be a flat or curved area on the RV roof.



- Fast and easy install. Peel liner and apply on clean surface.
- Dual 3M adhesive tapes for wider operating temperature range.
- Avoids drilling holes in the roof to ensure that the panel is securely mounted and will not fly off (tested in 155mph wind tunnel).

Note: Solar Max requires 3M 4411 Edge Tape around the top edge of the panel to provide some extra edge protection and adhesiveness. Dicor (self-leveling) sealing is also acceptable.

Rachel & Josh
Voyages of Agapé – YouTubers

Agapé relies entirely on Xantrex solar, lithium, and electronics to charge everything from computers and navigational equipment to our water maker. Each system is critical and when you are in some of the world's most remote locations you have to trust the gear onboard. We have relied on Xantrex since the beginning and their quality products have kept us out here doing what we love.

Charge Controller

Solar panels are connected to the batteries through a Charge Controller that regulates the power coming from the solar panel and ensures it is the right voltage for the type of battery being charged. Xantrex Solar Max panels pair best with Xantrex MPPT Charge Controller because it maximizes daily energy harvest even in cloudy environments. What's more, Xantrex MPPT charge controller has dual-bank battery charging that simultaneously charges house and starter batteries of various chemistries: AGM, Gel-Flooded or Lithium-ion!

MPPT Charge controllers use an algorithm to remove power from a solar array at the most efficient voltage resulting in a far more efficient charge (up to 30% more)

Optional Add-Ons

Freedom XC Pro
Inverter/Charger

Lithium-Ion Batteries

DC Battery Cables
+ Fuse Kits

PRODUCT	PART ID
Freedom XC Pro Marine 2000	818-2015
Freedom XC Pro Marine 3000	818-3015
FREEDOM X Bluetooth Remote Panel	808-0817-02
DC Battery Cables + Fuse Kit	809-0840
105 Ah 12V Lithium Ion Battery	883-0105-12
125 Ah 12V Lithium Ion Battery	883-0125-12
240 Ah 12V Lithium Ion Battery	883-0240-12
115W Solar Max Flexible Panel	784-9115-01
115W Slim Solar Max Flexible Panel	784-9115S-01
220W Solar Max Flexible Panel	784-0220
330W Solar Max Flexible Panel	784-0330
Xantrex MPPT Charge Controller	710-3024-01
Xantrex MPPT Remote Panel	710-0010

Freedom X Bluetooth
Remote Panel

Xantrex MPPT
Charge Controller

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