

Flexible Panel Installation Guideline

Carrying

Please make sure to hold flexible panel properly to distribute force evenly. Carrying the panel improperly may result in solar cell damage and solar panel output decrease.



Applying Adhesive

Apply structural adhesive bars every 30 cm as shown below:



Fully apply adhesive to the windward side which protects the panel against wind and rain.



Negative consequences if fail to follow instructions:

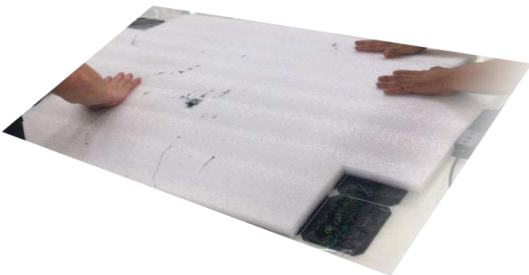
- Panel may fly off the roof when driving vehicle at high speed.
- Bottom of the panel may be damaged by rain, which will shorten the lifespan of the panel

3M Primer

Clean the roof before applying primer. Leave it for 2-3 minutes after applying to make sure it is installed properly.

Solar Panel Installation and Reinforcement

Apply force evenly to the whole panel instead of pinpoints to prevent damage to solar cells.



Apply adhesive around the panel after installation.

FAQ for Lightweight Flexible Solar Panel

How does temperature affect solar panel output efficiency?

Temperature affects solar panel output power. Use 25°C as the baseline, solar panel output power decreases 0.3% to 0.5% when average temperature increases 1°C.

Panel surface has ETFE (strongest fluorine-based plastic material on the market) patent coating. It offers extreme tearing resistance, tension resistance, shock resistance abilities ETFE also has better heat reflecting rate than glass, which offers superior cooling effect and increase solar panel efficiency.

Things to know before installing DB-H series flexible solar panel on RV rooftop?

Solar panel stability should be taken into consideration when vehicle is moving at high speed. Please use Renogy's method for installation, and follow the application instruction. For flexible panel, please use silicone structural adhesive for installation. Please apply silicone structural adhesive on the target surface according to the panel's four edges completely without any gap. The thickness of the adhesive should not be less than 4 mm, and the width should not be less than 10 mm. If possible, apply adhesive on the center of the back of the panel to enhance installation liability.

How do clouds and shadowing affect solar panel output efficiency?

Solar panel output power will decrease in cloudy weather or when the panel is partially covered.

This is normal. Output power will increase when sunlight recovers. Please do not cover solar cell completely, or the output power will decrease sharply. When solar panel is partially covered, the output power will change accordingly. Vertically divide solar panel evenly into two sections. When only one section is covered, solar panel output power will only decrease about 10% even if this section is covered by 80%. When both sections are covered at the same time, there will be almost no output power even if the solar panel is covered less than 10%. Thus, it is not recommended to cover both sections at the same time.



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