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FAQ - DAITTO Flexible Solar Panels

1. Can flexible solar panels be bent or curved?
Yes, our flexible solar panels can be bent up to 30 degrees, making them ideal for curved surfaces such as RV roofs, boats, tents, and more.

2. Are they waterproof?
Absolutely. All our flexible solar panels are waterproof and designed to withstand outdoor conditions including rain, snow, and humidity.

3. What is the lifespan of your flexible solar panels?
Typically, our panels last 25 years with proper installation and usage. They come with a standard warranty of 10 years.

4. Do you support customization?
Yes, we support OEM & ODM. We can customize size, power, cable length, connector types, and logo printing.

5. How do I install the flexible solar panel?
Installation is easy. Panels can be attached with adhesives, screws (through mounting holes), or Velcro depending on your surface.

6. Can your flexible panels charge 12V batteries?
Yes. Most of our models are designed for 12V systems and can safely charge batteries with a charge controller.

7. What certifications do your products have?
Our flexible solar panels are certified with CE, RoHS, FCC, ISO9001, and comply with international quality and safety standards.

8. Can I use them in cloudy or rainy weather?
Yes. Even under low light, high-efficiency cells allow power generation during cloudy weather.

9. Do you have foldable or portable models available?
Yes, we offer foldable and portable solar kits from 20W to 500W, suitable for camping, outdoor work, and emergencies.

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10. How should I clean and maintain the panel?
Wipe the surface with a damp soft cloth to remove dust or debris. Avoid strong chemicals or abrasive objects.

11. What is the difference between flexible and rigid solar panels?
Flexible panels are lightweight, thin, and bendable for irregular surfaces, while rigid panels are heavier, more durable, and slightly more efficient.

12. Can I walk on a flexible solar panel?
Yes, our panels are walkable and designed with durable reinforcement layers to withstand foot traffic.

13. Do I need a charge controller when using your panel?
Yes, to protect your battery from overcharging or discharging, a charge controller is recommended.

14. Can I connect multiple flexible solar panels together?
Yes. Panels can be connected in series or parallel depending on your system requirements.

15. How should I store the panel when not in use?
Store it in a dry, cool place. Avoid prolonged direct sunlight and sharp bends during storage.

16. What kind of surfaces can flexible panels be mounted on?
They can be mounted on metal, plastic, glass, composite, or fabric surfaces if mostly flat or gently curved.

17. Are your flexible solar panels suitable for marine use?
Yes, they are salt-mist resistant and ideal for yachts, boats, and other marine environments.

18. What is the efficiency of your flexible solar panels?
Our panels use high-efficiency mono or HPBC cells, reaching up to 25.8% efficiency.

19. Can I use your panel to power AC appliances directly?
No. You'll need an inverter to convert DC output into AC electricity.

20. Do you provide technical support for installation?
Yes, we offer full technical support via email, video guides, and online chat.

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21. Can I use your flexible solar panels for off-grid systems?
Yes, they are widely used in RVs, boats, cabins, tents, and emergency setups.

22. What type of connectors do the panels come with?
Typically MC4 connectors, but customization is available upon request.

23. Can I order panels without connectors or cables?
Yes, we offer flexible customization options for cables and accessories.

24. How do you pack the flexible panels for shipping?
We use strong cartons with foam protection, and wooden crates or pallets for bulk shipments.

25. Are your panels compatible with power stations?
Yes. Please tell us your power station model, and we'll suggest the right cables/adapters.

26. Can I get a sample to test before bulk order?
Of course! Samples are usually ready in 3–5 working days.

27. Do you offer any mounting accessories?
Yes, adhesive tape, Velcro, eyelet grommets, zip ties, and more are available.

28. Will your panel work during winter or in cold climates?
Yes. Our panels operate between -40°C to +85°C. Cold weather may even slightly boost performance.

29. Do flexible solar panels degrade faster than rigid ones?
Flexible panels may have a slightly shorter lifespan, but our ETFE-coated panels ensure maximum durability and UV resistance.

30. Can I request a custom shape or design?
Yes. For larger orders, we can customize shape, layout, color, and add your logo.

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Product Development & Manufacturing Process

Step	Process	Description
1	Product Design	Customize the solar panel layout, material selection, and electrical design according to client needs.
2	Sample Development	Prototype samples are produced for testing and evaluation.
3	Raw Material Preparation	Procure and inspect raw materials such as solar cells, encapsulation materials, and connectors.
4	Laser Cutting	Precision laser cutting of solar cells into specific shapes and sizes.
5	Cell String Welding	Weld solar cells together using soldering machines to form strings.
6	Automatic Cell Laying	Automatically arrange cell strings onto the panel surface according to the design layout.
7	Semi-finished EL Testing	Perform EL (Electroluminescence) testing to detect hidden cracks and defects in cells.
8	Lamination	Encapsulate solar cells between protective layers under high temperature and vacuum.
9	Edge Cutting	Trim the laminated panels to the final dimensions precisely.
10	Final Assembly	Assemble junction boxes, cables, connectors, and other accessories.

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Step	Process	Description
11	Final IV Testing	Test the final product's voltage, current, and power output to ensure performance standards are met.
12	Packing & Shipping	Package products securely for safe transportation to customers worldwide.

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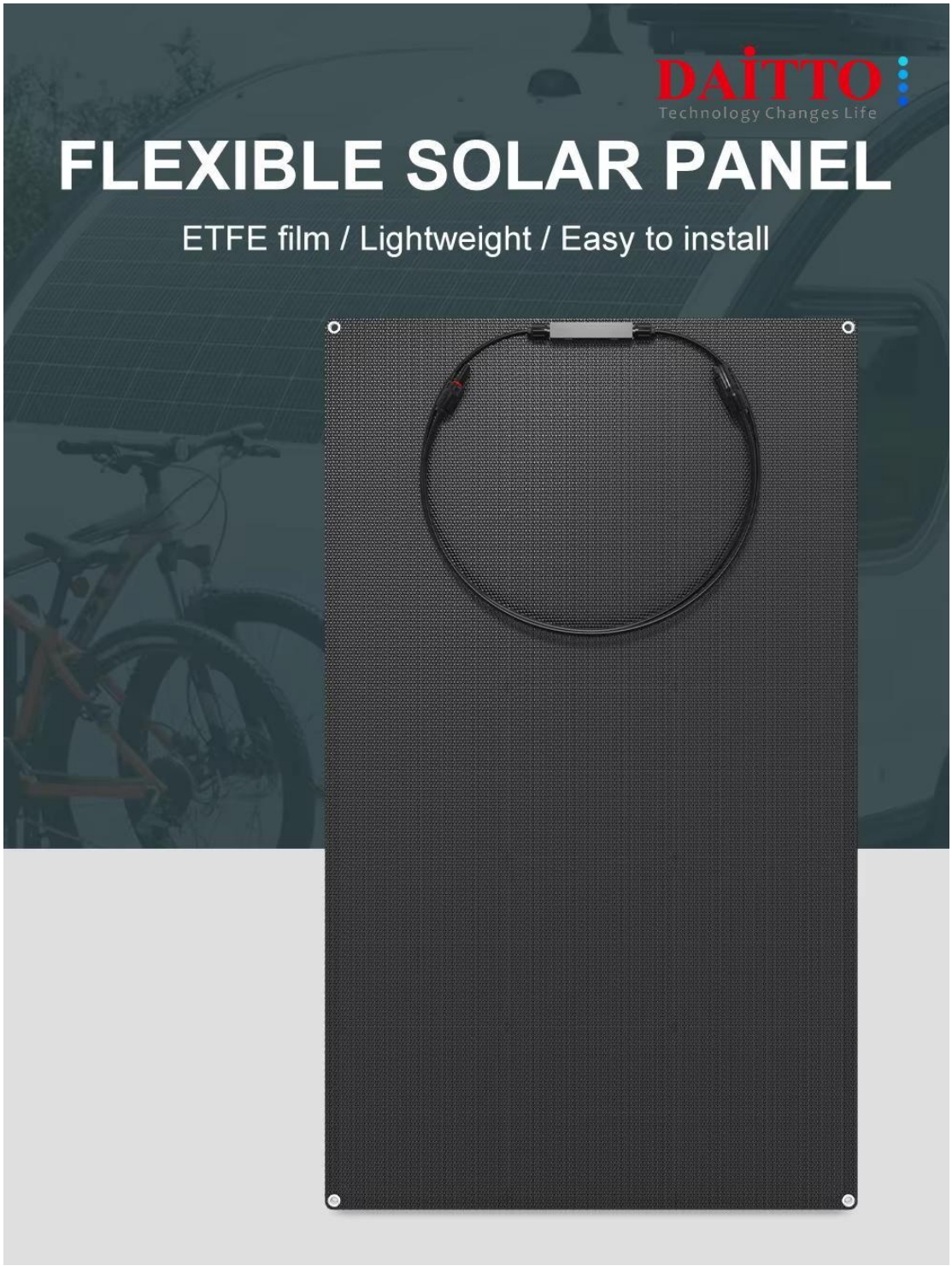

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BENDING WITHOUT DAMAGE

Strengthening with anti cracking fibers

High efficiency

Flexible

High transmittance

Light weight

Anti cracking

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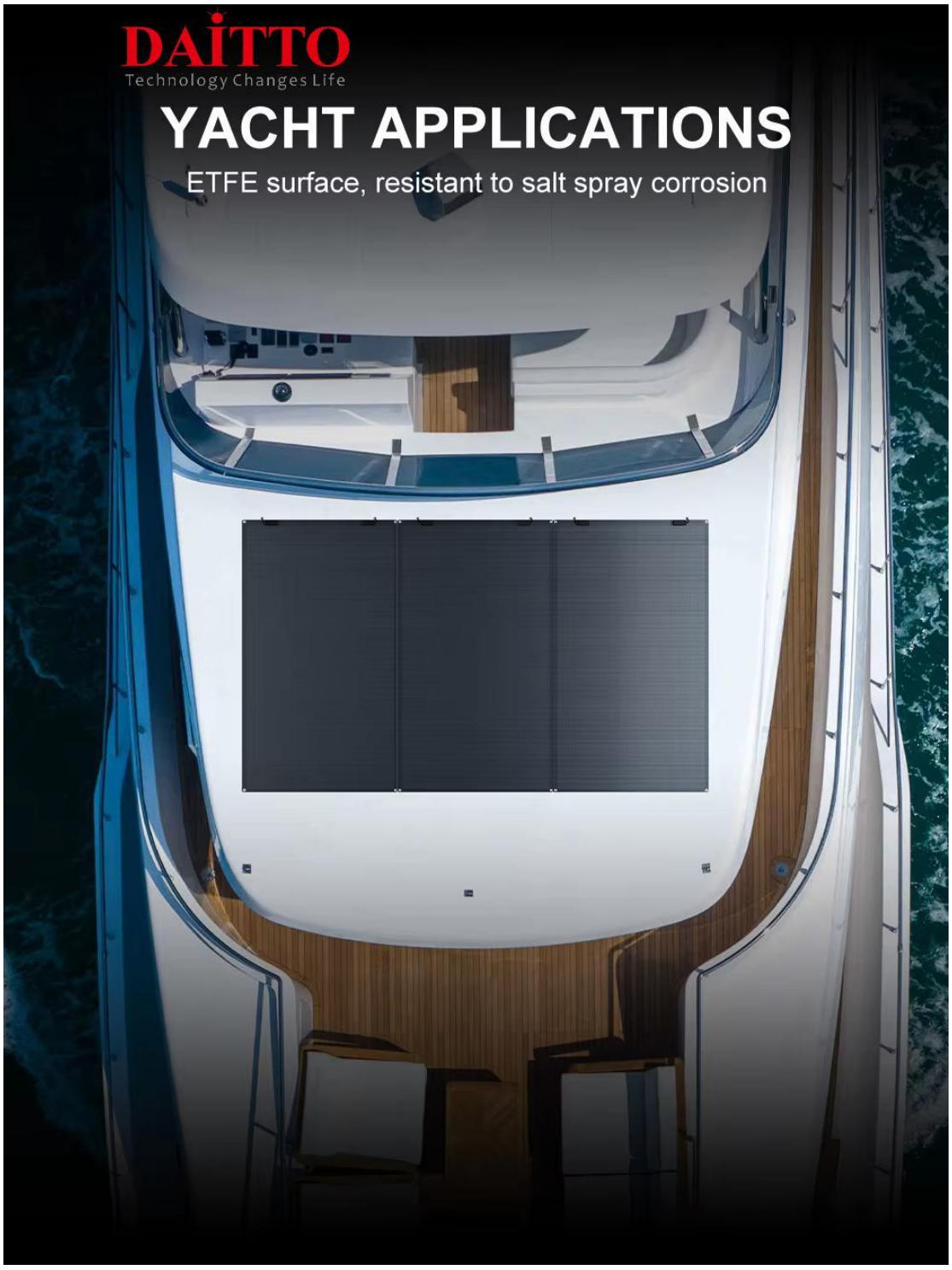

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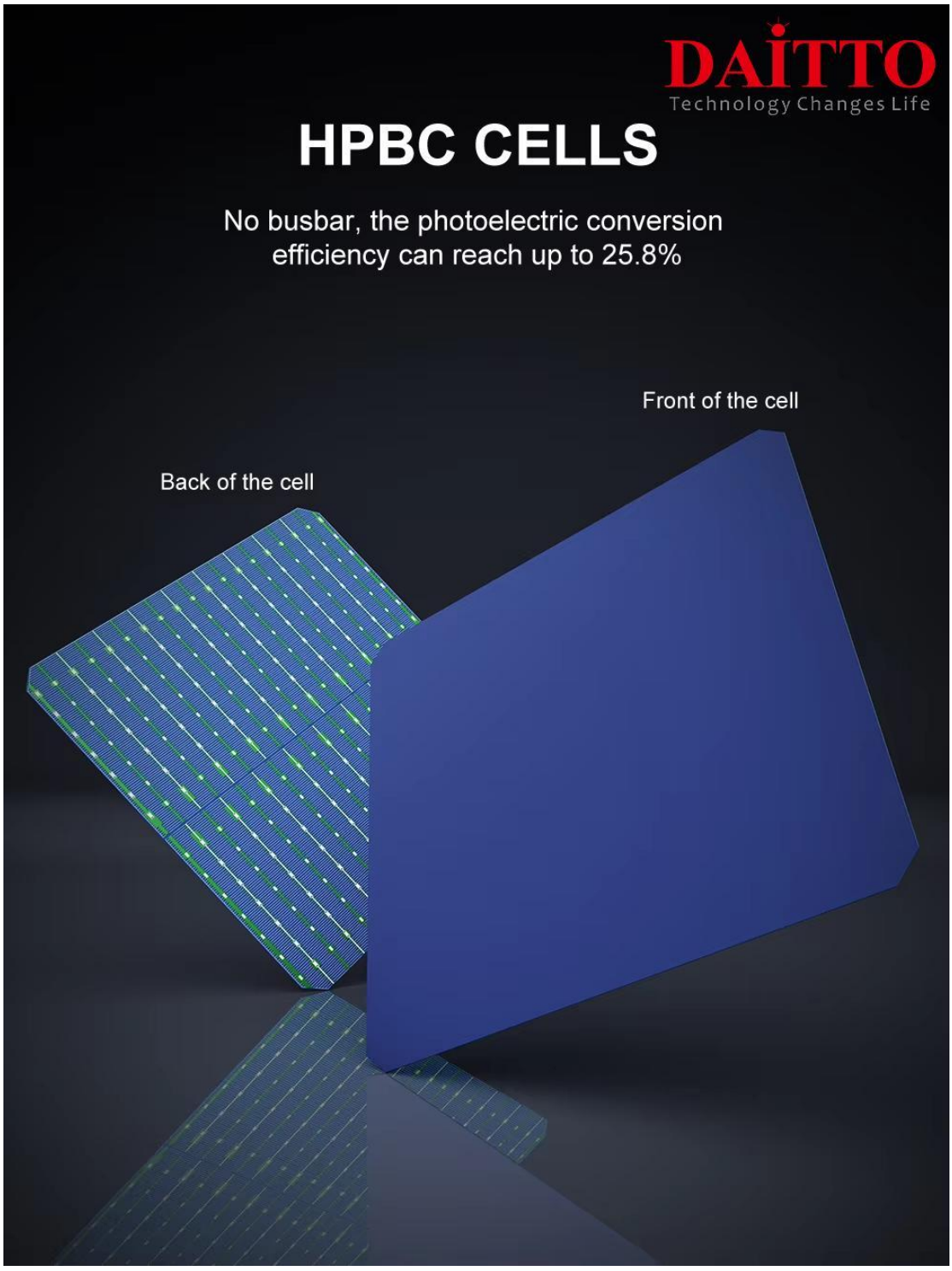

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IP67 WATERPROOF

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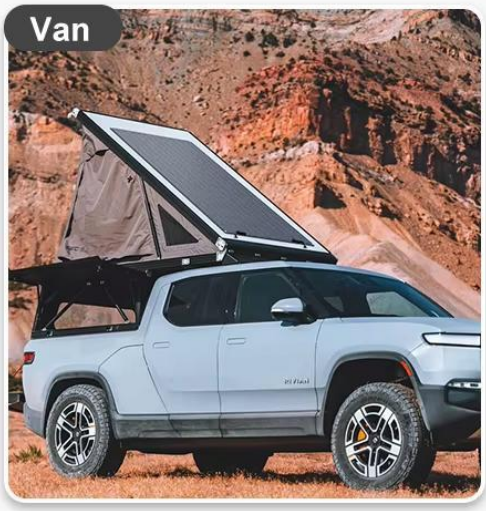
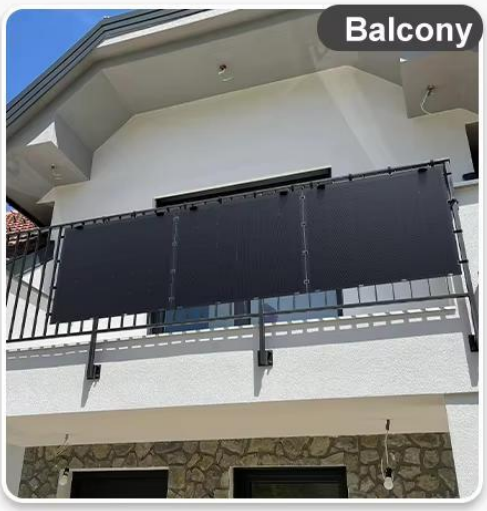
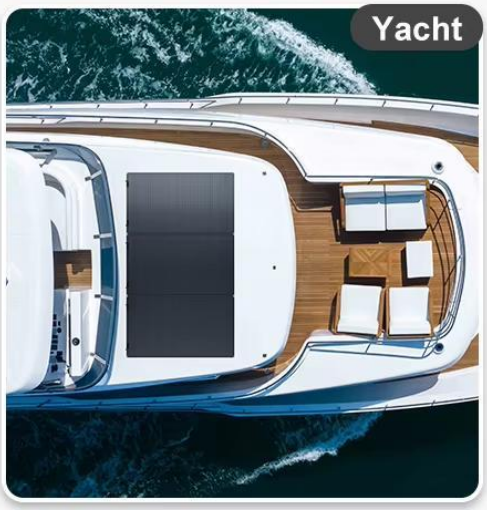
APPLICATION SCENARIOS

Suitable for RVs, balcony fences, roofs, yachts, and streetlights







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Power: 230W

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Max.power volt.(Vmp) : 17.0V
Max.power current.(Imp) : 13.5A
Open circuit volt.(Voc) : 21.3V
Short circuit current.(Isc) : 14.4A
Size: 1150*990*2.8mm
Weight: 3.5kg

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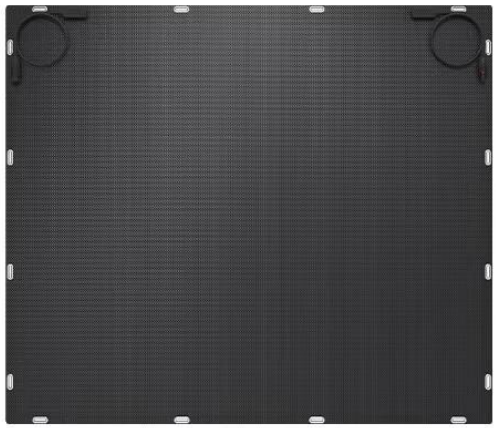

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Power: 250W

Max.power volt.(Vmp) : 18.0V
Max.power current.(Imp) : 13.9A
Open circuit volt.(Voc) : 22.5V
Short circuit current.(Isc) : 14.8A
Size: 1530*770*2.8mm
Weight: 3.6kg

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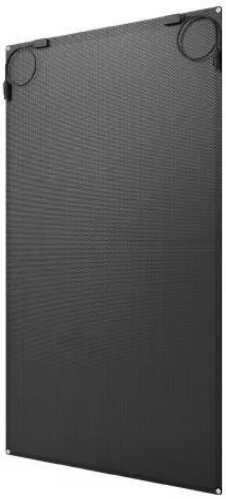

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Flexible Solar Panel	
Power	50W
Max.power volt.(Vmp)	20.0V
Max.power current.(Imp)	2.50A
Open circuit volt.(Voc)	25.0V
Short circuit current.(Isc)	2.66A
Unfolded Size	640*400*2.6mm
Solar Cell	HPBC Monocrystalline silicon (182*32mm)
Number of Cells	36 (18*2)
Weight	0.96kg
Output port	0.9M cablewith MC4
Flexible Solar Panel	
Power	100W
Max.power volt.(Vmp)	20.0V
Max.power current.(Imp)	5.00A
Open circuit volt.(Voc)	25.0V
Short circuit current.(Isc)	5.32A
Unfolded Size	840*580*2.6mm
Solar Cell	HPBC Monocrystalline silicon (182*64mm)
Number of Cells	36 (12*3)
Weight	1.82kg
Output port	0.3M cablewith MC4

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Flexible Solar Panel	
Power	150W
Max.power volt.(Vmp)	20.0V
Max.power current.(Imp)	7.50A
Open circuit volt.(Voc)	25.0V
Short circuit current.(Isc)	7.98A
Unfolded Size	1220*580*2.6mm
Solar Cell	HPBC Monocrystalline silicon (182*96mm)
Number of Cells	36 (12*3)
Weight	2.64kg
Output port	0.3M cablewith MC4

Flexible Solar Panel	
Power	200W
Max.power volt.(Vmp)	20.0V
Max.power current.(Imp)	10.0A
Open circuit volt.(Voc)	25.0V
Short circuit current.(Isc)	10.6A
Unfolded Size	1220*770*2.6mm
Solar Cell	HPBC Monocrystalline silicon (182*64mm)
Number of Cells	72 (18*4)
Weight	3.51kg
Output port	0.3M cablewith MC4

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Flexible Solar Panel	
Power	250W
Max.power volt.(Vmp)	18.0V
Max.power current.(Imp)	13.9A
Open circuit volt.(Voc)	22.5V
Short circuit current.(Isc)	14.8A
Unfolded Size	1540*770*2.6mm
Solar Cell	HPBC Monocrystalline silicon (182*91.88mm)
Number of Cells	64 (16*4)
Weight	4.43kg
Output port	0.3M cablewith MC4

Flexible Solar Panel	
Power	300W
Max.power volt.(Vmp)	20.0V
Max.power current.(Imp)	15.0A
Open circuit volt.(Voc)	25.0V
Short circuit current.(Isc)	16.0A
Unfolded Size	1800*770*2.6mm
Solar Cell	HPBC Monocrystalline silicon (182*96mm)
Number of Cells	72 (18*4)
Weight	5.18kg
Output port	0.3M cablewith MC4