



X-greenPower

Flexible & Light Weight Solar Solutions



We're offering:

Flexible & Bendable Solar Panels

Light Weight Solar Panels

Beautiful Solar Panels

Solar Charger

Double Glass Solar Panels

Solar Applications

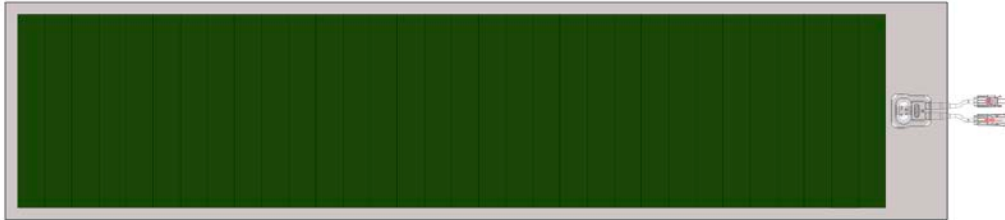
Why we're unique?

>10 Years Module
Design Experiences

High Volume Flexible Module
Manufacturing Experiences

Highest Level Materials
Ensure Long Lifetime

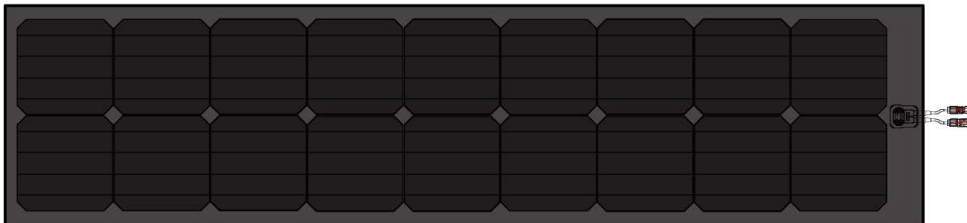
1.Flexible CIGS Panel



CF-66

- Rollable & Flexible CIGS cells;
- 66W / 17.6V, 15.5% PV efficiency;
- 1528x352x1.5mm, 1.5kg;
- Suitable for big curve / irregular roof, portable / removable cases, people can step on them.

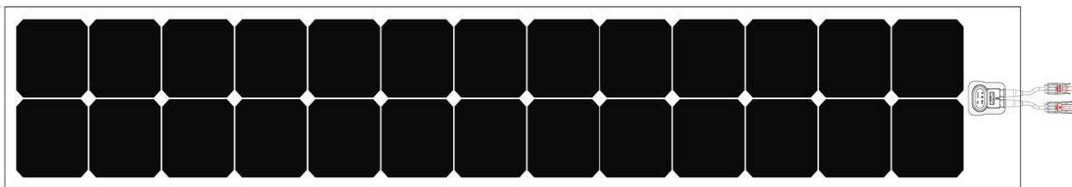
2.Semi-flexible C-Si Panel



XE-90

- Crystalline silicon cells;
- 90W / 10V, 20% PV efficiency,
- 1500x360x2mm, 2.3kg;
- Suitable for flat or slight curve roof.

3.Semi-flexible IBC Panel



AFS-85

- IBC cells;
- 85W / 15.6V, 23% PV efficiency,
- 1786x313x2mm, 1.9kg;
- Suitable for flat or slight curve roof.





12W Light Weight Panel For Tile Roof



Electrical Characteristics

P _{max}	12W
V _{mpp}	10V
V _{oc}	12.5V
I _{mpp}	1.2A
I _{sc}	1.3A
Cell Efficiency	19%
Power Tolerance	±1W
Nominal Operating Cell Temp.	45°C
Operating Temperature	-40° C to +85° C
Temp. Coefficient of P _{max}	-0.48%/° C
Temp. Coefficient of V _{oc}	-0.34%/° C
Temp. Coefficient of I _{sc}	0.017%/° C
Mechanical Size	300x245x2mm
Cell Type	156 mono
Features	No glass, Light weight

Power / Dimension Customization Available



Flexible & Bendable Solar Panels (Thin film)

CIGS Technology @15% Efficiency

The most powerful flexible solar panels in the market

A-Si Technology @8% Efficiency

CF-66



CIGS Technology

66W / 17.92V / 3.68A

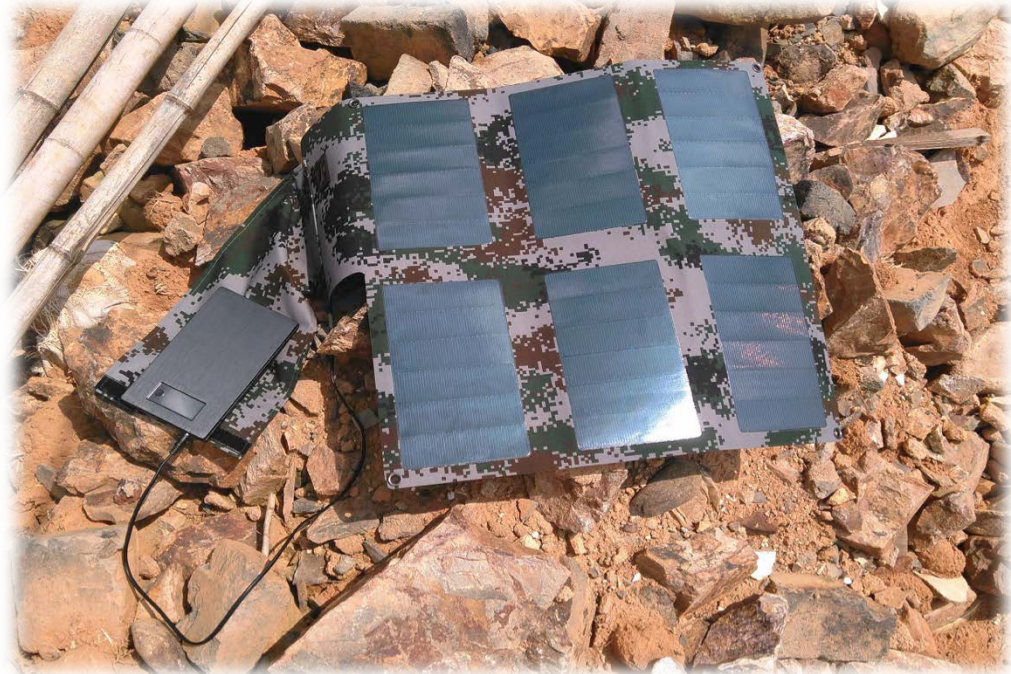
Flexible & Bendable

1528x352x1.5mm

Curve Surface

1.55Kg

Power / Dimension Customization Available



Flexible CIGS Technology (38W)

Super light to 1.2Kg

Foldable Design

High Durability in outdoors

- Solar Panel Output: 38W / 19.8V / 1.92A
- 320x215X50mm(Fold), 780x630X1.5mm(Unfold)
- High performance encapsulation by Super Barrier film
- Military Grade Fabrics to offer maxim mechanical strength
- Unbreakable toughness quality promised

Power / Dimension Customization Available

FF-12 / FF-24

Super Flexible / Rollable



Super Flexible CIGS module (Rollable)

	P_{MPP}	V_{MPP}	I_{MPP}	Efficiency	Rolled	Extend
FF-12	12W	5V(USB)	2.44A	15%	259x15mm	550x259X1mm
FF-24	24W	18V	1.33A	15%	259x18mm	1030x259X1mm



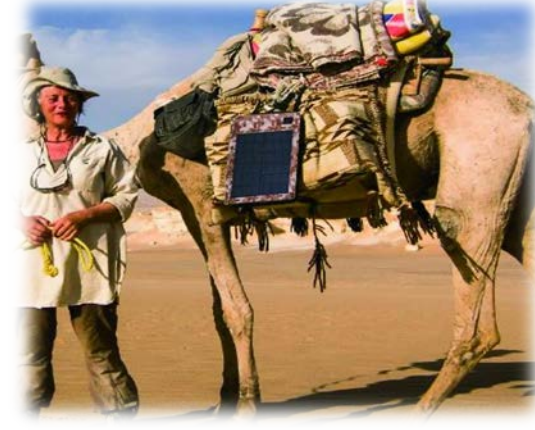
CIGS Technology

15% PV Efficiency

Flexible & Foldable

6W Solar panel

- Dual USB output: 5.2V / 1.15A (max)
- Auto reboot system for Apple devices
- High performance encapsulation of Super Barrier film
- Military Grade Fabrics to offer maxim mechanical strength
- Unbreakable toughness quality promised (>6500Mpa)



Power / Dimension Customization Available

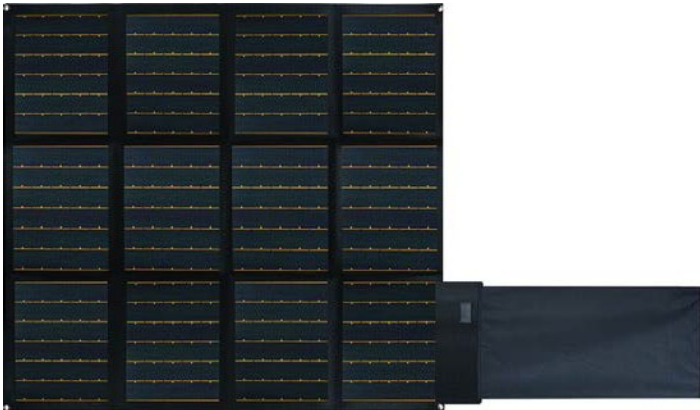


Customized colors for options



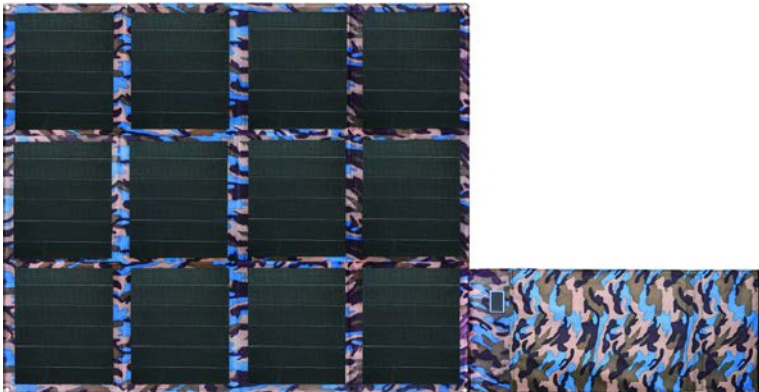
CD-24

- Solar Panel Output: 24W / 12V / 2.0A
- 314x195x20mm(Fold), 911x314x1.5mm(Unfold)
- Weight: 0.48Kg



CG-98

- Solar Panel Output: 98W / 18V / 5.44A
- 320x280x35mm(Fold), 1147x935X1.5mm(Unfold)
- Weight: 1.8Kg



CD-148

- Solar Panel Output: 148W, 39.6V or 19.8V
- 380x350x50mm(Fold), 1387x1060X1.5mm(Unfold)
- Weight: 2.5Kg

Power / Dimension Customization Available

Popular Flexible / Foldable / Rollable CIGS models (Thin Film)

	Power	V _{oc}	I _{sc}	V _{mpp}	I _{mpp}	Output	Size(Folded)	Size(Unfolded)	N.W.
CF-6	6W	/	/	5V	1.20A	Dual USB	/	345x200x1mm	150g
CP-6	6W	/	/	5V	1.20A	Dual USB	215x150x25mm	545x215x1mm	200g
CG-8	8W	/	/	5V	1.60A	Dual USB	/	354x259x1mm	150g
FF-12	12W	/	/	5V	2.44A	Dual USB	259x15mm(Roll)	550x259x1mm	250g
CP-15	15W	19.8V	1.0A	16.5V	0.90A	DC / SAE	310x250x30mm	645x310x1.5mm	400g
CD-24	24W	/	/	12V	2.0A	USB / DC	314x195x20mm	911x314x1.5mm	480g
FF-24	24W	21.6V	1.35A	18V	1.22A	DC / SAE	259x18mm(Roll)	1030x259x1mm	400g
CD-38	38W	23.4V	2.11A	19.8V	1.92A	DC / SAE	320x215x30mm	780x630x1.5mm	1.20Kg
CG-50	50W	21.6V	3.05A	18V	2.77A	DC / SAE	315x260x20mm	889x625x1mm	1.00Kg
CF-66	66W	21.1V	4.12A	17.6V	3.75A	DC / MC4	/	1528x352x1.5mm	1.50g
CD-148	148W	39.6V	2.82A	19.8V	3.75A	DC / SAE	380x350x50mm	1387x1060x1.5mm	2.50Kg
CF-276	280W	44.8V	8.25A	37.4V	7.50A	DC / MC4	/	2104x986x1.5mm	4.70Kg



Light Weight Solar Panels

(Crystalline Silicon Technology)

No glass
Anti UV, Long durability

Where High Quality Stands

E-150M



150W / 18V or 36V

light weight to 7.6Kg

- High efficiency mono silicon cell built in
- 1415x1095x2mm (Unfold), 550x375x50mm (Fold)
- Customized connector available (IP67)
- Self clean and scratch free surface (ETFE front film)

Power / Dimension Customization Available

E-44



44W / 18V / 2.44A

Light weight to 1.6kg

- High efficiency mono silicon cell built in
- 930x540x2mm (Unfold), 270x205x30mm (Fold)
- Customized connector available (IP67)
- Self clean and scratch free surface (ETFE front film)

Power / Dimension Customization Available

T-9

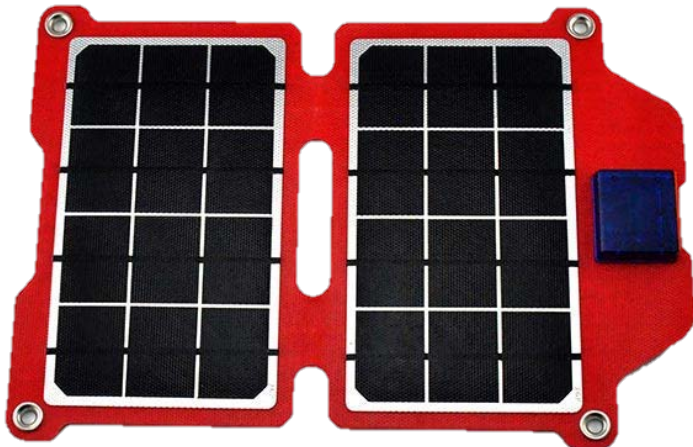
9.4W mono cells

Compact design

ETFE enabled

Super light to 340g

Magnetic button



- 20% high efficiency mono silicon cell built in
- 9.4 Watts solar module output (6V/ 1.57A)
- Power output of USB Charging (5.2V / 1.80A max)
- 392x274x2mm (Unfold), 274x220x15mm (Fold)
- Self clean and Scratch free surface (ETFE front film)
- The unique design of cell parallel connection to enhance charging stability

T-4



Super light to 190g

High efficiency mono silicon cell built in

Solar panel: 4.7W / 6V

Dual USB output: 5.2V / 0.90A (max)

Size: 280x220x2mm

Self clean and scratch free surface (ETFE front film)

T-5



Super light to 260g

High efficiency mono silicon cell built in

Solar panel: 5.5W / 6V

Dual USB output: 5.2V / 1.05A (max)

Size: 395x195x2mm (Unfold), 195x215x15mm (Fold)

Self clean and scratch free surface (ETFE front film)



T-14

14W / 18V / 0.78A

Super light to 450g

High efficiency mono silicon cells built in
550x255x2mm (Unfold), 255x215x25mm (Fold)
Self clean and scratch free surface
(ETFE front film)

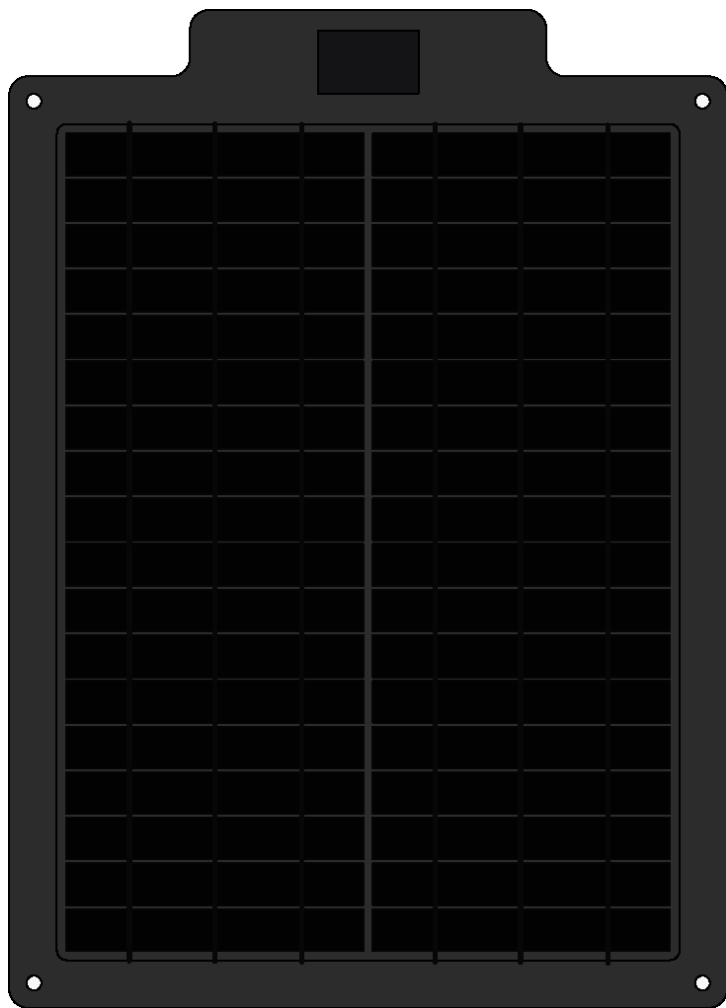


E-22

22W / 18V / 1.22A

Super light to 780g

High efficiency mono silicon cells built in
940x270x2mm (Unfold), 270x195x25mm (Fold)
Self clean and scratch free surface
(ETFE front film)



Model Name	XE-23
Solar Cell	Mono cells
Front Film	ETFE
Pmax	23.5W
Vmpp	18.0V
Impp	1.30A
Voc	21.2V
Isc	1.51A
Temperature Coefficient of Pmax	-0.48%/°C
Temperature Coefficient of Isc	0.017%/°C
Temperature Coefficient of Voc	-0.34%/°C
Operating Temperature	-40°C to +85°C
Power Tolerance	±3%
Size of Module	525x377mm
Weight	1kg
Junction Box Type	MC4 or DC
FF (%)	72-74%

Popular Light Weight Silicon Family (Mono)

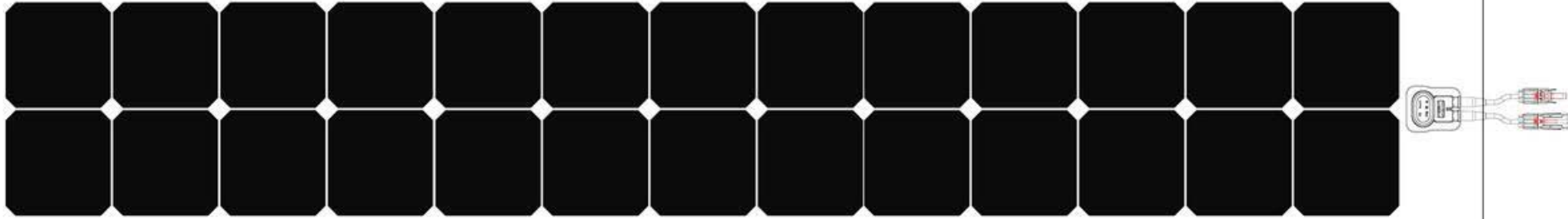
	Power	V _{oc}	I _{sc}	V _{mpp}	I _{mpp}	Size(Folded)	Size(Unfolded)	N.W.
T-4	4.7W	Dual USB		5.2V	0.90A	/	280x220mm	190g
T-5	5.5W	Dual USB		5.2V	1.05A	195x215x15mm	395x195x2mm	260g
T-9	9.4W	Dual USB		5.2V	1.81A	274X220X15mm	392x274x2mm	340g
XE-12	12W	12.5V	1.30A	10V	1.20A	/	300x245x2mm	420g
T-14	14W	21V	0.86A	18V	0.78A	255x215x25mm	550x255x2mm	450g
E-22	22W	21V	1.34A	18V	1.22A	270x195x25mm	940x270x2mm	780g
XE-23	23.5W	21V	1.51A	18V	1.30A	/	525x377x2mm	1.0Kg
E-36	36W	21V	2.20A	18V	2.00A	235x210x30mm	950x275x2mm	1.4Kg
E-44	44W	21V	2.68A	18V	2.44A	270x205x30mm	930x540x2mm	1.6Kg
E-72	72W	21V	4.40A	18V	4.00A	535x345x50mm	1395x535x2mm	3.5Kg
E-150	150W	43.2V	4.60A	36V	4.17A	550x375x55mm	1415x1095x2mm	7.6Kg



Light Weight solar module (ETFE Film)

Model Name	AFS-105
Solar Cell	IBC cells
Pmax	105W
Vmpp	17.6V
Impp	5.96A
Voc	21.12V
Isc	6.68A
Temperature Coefficient of Pmax	-0.38%/°C
Temperature Coefficient of Isc	0.059%/°C
Temperature Coefficient of Voc	-0.27%/°C
Operating Temperature	-40°C to +85°C
Power Tolerance	±3%
Size of Module	1151x549mm
Weight	2.5kg
Junction Box Type	MC4
FF (%)	72-74%

*Measured at (STC) Standard Test Conditions: 25°C, 1KW/m² insolation, AM1.5



AFS-85

Electrical Characteristics

P _{max}	85W
V _{mpp}	15.6V
V _{oc}	17.1V
I _{mp}	5.45A
I _{sc}	6.10A
Cell Efficiency	23%
Power Tolerance	±1W
Nominal Operating Cell Temp.	47°C
Operating Temperature	-40° C to +85° C
Temp. Coefficient of P _{max}	-0.38%/° C
Temp. Coefficient of V _{oc}	-0.27%/° C
Temp. Coefficient of I _{sc}	0.059%/° C
Mechanical Size	1786X313x2mm
Cell Type	125 IBC
Features	No glass, Light weight





Double Glass Solar Panels

For Walkway, Plaza, Park

Where High Quality Stands

19W Double Glass Panel For Walkways

DS-19



Power / Dimension Customization Available

Honest

Professional

Integrity

>10yrs Experiences

Responsibility



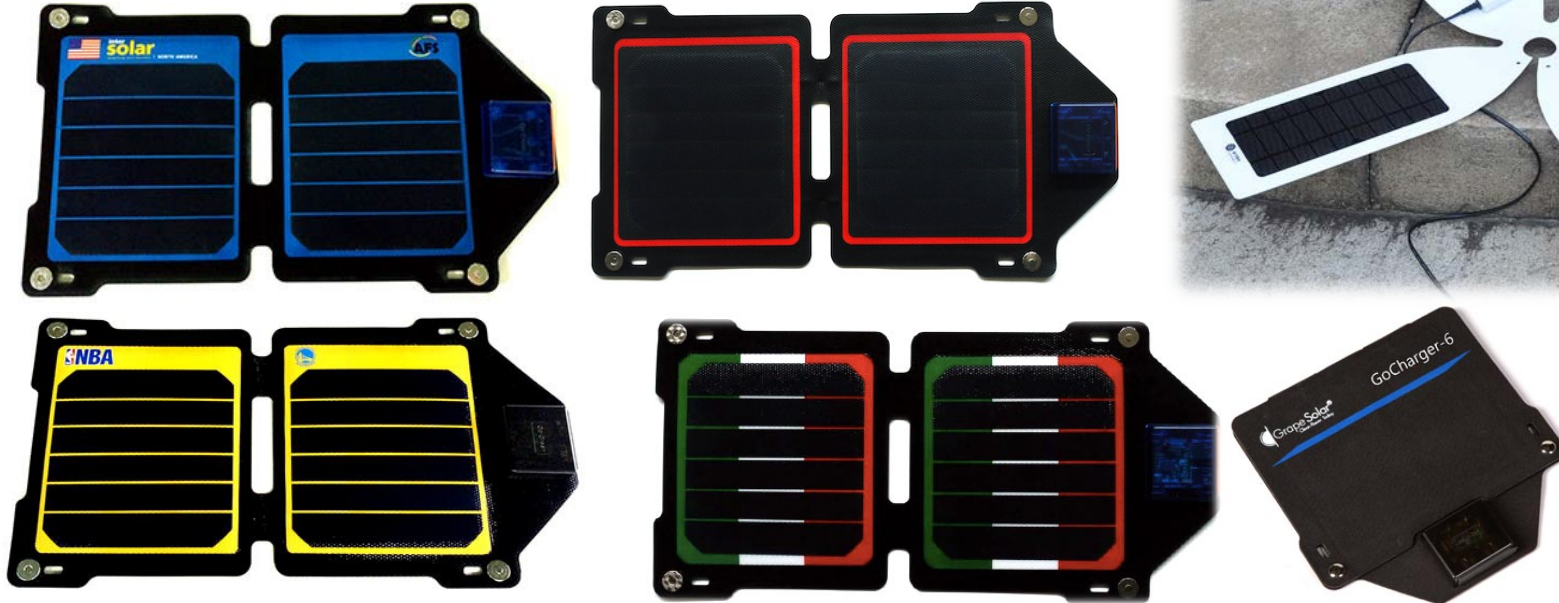
Beautiful Solar Panels

Creative Design

Where High Quality Stands

Make Solar Beautiful

- Power: 3W ~ 200W
- Shape: Round, Ellipse, Rectangle, Square or others
- Background: Various colors, Picture, Transparent





Solar Applications

Tent, Umbrella, Backpack, Boat, Golf Cart, Roof
Customization Available

Honest

Professional

Integrity

>10yrs Experiences

Responsibility



Where High Quality Stands

Honest

Professional

Integrity

>10yrs Experiences

Responsibility



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