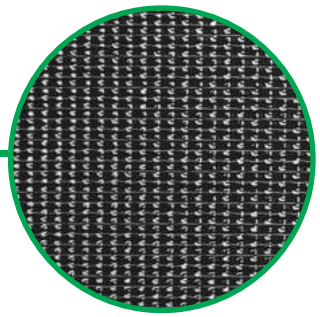
Invictus®
Smart products

Mono Semi-Flexible Solar Panel

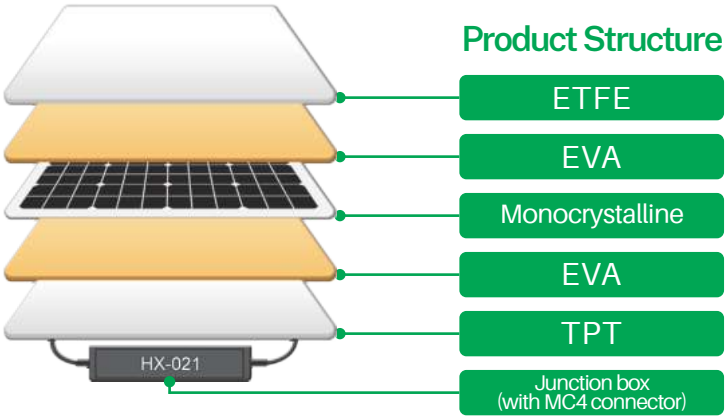
ETFE+EVA+Monocrystalline+EVA+TPT





ETFE Layer

Product Structure



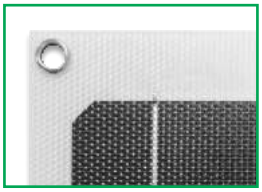
The main features

- ETFE coating
- Waterproof IP67
- Fire resistant
- 3mm thickness
- Ultra soft
very light and thin
- UV resistant
Longer lifetime

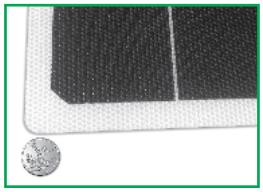
Features

Performance of ETFE vs. PET		
Material	ETFE	PET
Combination	Ultra lightweight and durable .The combination between ETFE and back sheet is much stronger than PET.	Combination of PET is not as durable and waterproof as ETFE.
Light transmission	95% transparency offers excellent eiciency in terms of light to electricity conversion.	90% to 93% transparent results in lower efficiency in terms of light to electricity conversion.
Surface adhesion	ETFE has non-adhesive surface properties. Highly stain-resistant and easily gets cleaned by the rain.	Adhesive surface may get covered with dust or other debris, significantly affecting the output of solar panel.
Lifetime (combined with solar panel)	More than 12 years, resists aging, deteriorates slowly.	Around 10 years, may form air pockets and peels of during using.
Corrodibility	Highly resistant to seawater corrosion.	Not acid and alkali resistant, making it not ieally for use in marine environment.
Flammability	Highly flame retardant. Suitable for temperatures ranging from -65℃ to +150℃. Can be installed safely in hot climates.	Not suitable for use in high temperature regions due to short-term heat resistance.
Applicative effects	Absorbs sunlight, no relection.	Will Reflect a large amount of sunlight.May cause light pollution.

Details



Install grommets



3mm thickness



Waterproof IP67



Fire resistant



Black color

Package



1

To protect the four corners of the panels.



2

Pearl cotton shock-proof and pressure-relief protection.



3

Carton packaging.

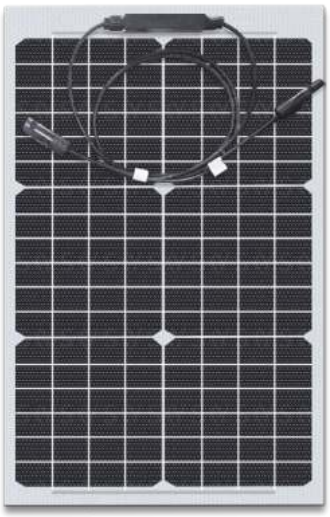


4

The cartons should be packedin wooden cases with double protection against damage.

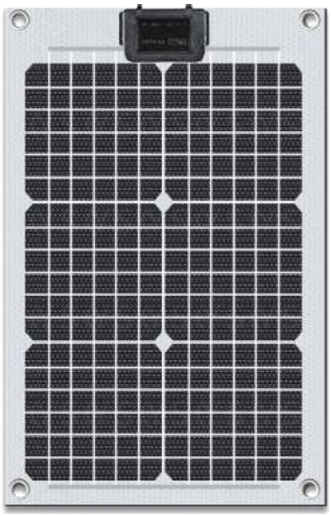
Parameter

MODEL	PM/W	VOC/V	ISC/A	VMP/V	IMP/A	C-EFF	Array	N/W(kg)	DIMENSION (mm)
SN-MH18W	18	23.70	1.00	19.40	0.90	19.20%	18*2 cells (125*20.8)	0.3	434*277*3
SN-MH25W	25	21.60	1.50	18.00	1.40	26.67%	18*2 cells (125*20.8)	0.6	560*277*3
SN-MH30W	30	21.20	1.80	17.60	1.70	16.00%	12*3 cells (125*41.67)	0.5	535*378*3
SN-MH30W	30	21.60	1.83	18.00	1.67	20.55%	18*2 cells (156*26)	0.3	620*340*3
SN-MH50W	50	21.60	3.03	18.00	2.78	17.12%	12*3 cells (156*52)	0.5	670*510*3
SN-MH90W	90	21.60	5.50	18.00	5.00	20.75%	9*4 cells (156*78)	1.5	765*670*3
SN-MH95W	95	19.20	6.20	16.00	5.60	19.00%	8*4 cells (125*125)	1.4	1050*540*3
SN-MH100W	100	21.60	6.10	18.00	5.60	17.78%	9*4 cells (125*125)	1.5	1175*540*3
SN-MH110W	110	21.60	6.72	18.00	6.11	21.12%	9*4 cells (156*93.6)	2.0	910*670*3
SN-MH115W	115	24.00	6.30	20.00	5.80	18.40%	10*4 cells (125*125)	1.8	1305*540*3
SN-MH125W	125	26.40	6.20	22.00	5.70	18.18%	11*4 cells (125*125)	2.0	1435*540*3
SN-MH130W	130	21.60	7.94	18.00	7.22	22.25%	9*4 cells (156*104)	2.3	1190*670*3
SN-MH190W	190	22.20	11.30	18.50	10.27	21.88%	9*4 cells (156*156)	2.9	1480*670*3



25W

18*2 cells (125*20.8)



30W

18*2 cells (156*26)



100W

9*4 cells (125*125)



180W

9*4 cells (156*156)

Warranty & Certiicate





CE RoHS

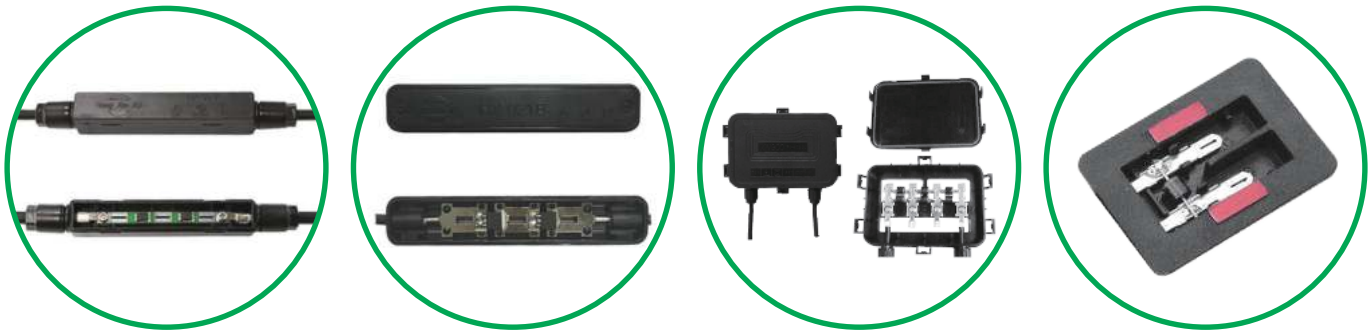
SGS IEC LVD

Quality warranty in 3 years.

Any quality problems will be repaired or replaced if within the warranty period.



Junction Box

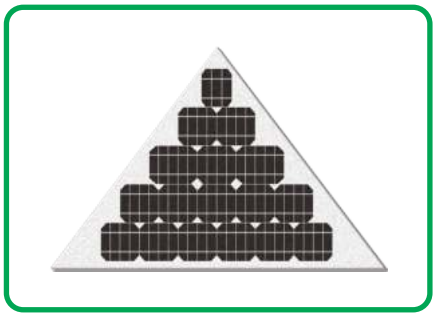
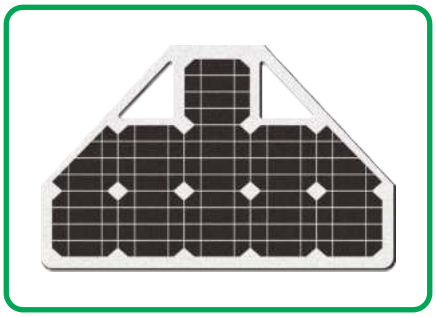
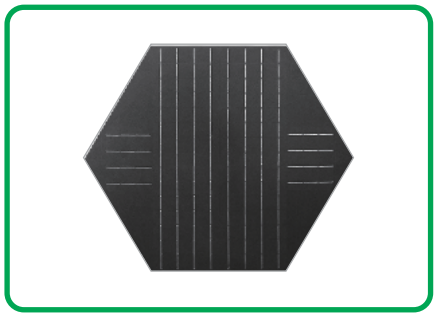
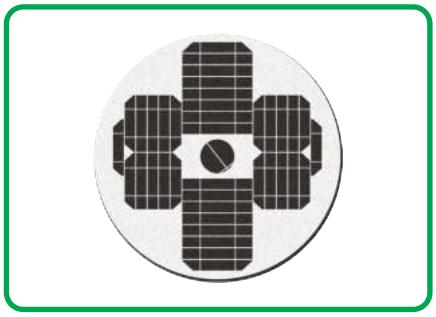
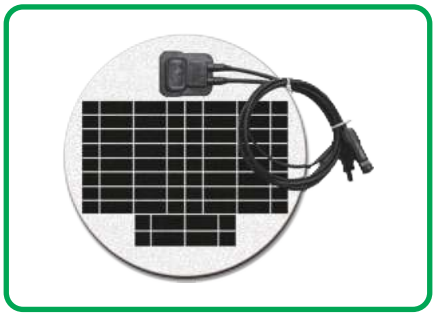
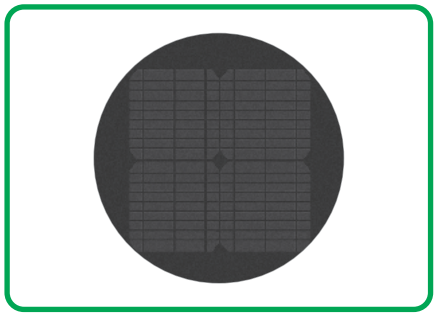






OEM Show

Any size,power,voltage,we can produce totally as you required.
The free custom items: junction box size and position, diode, cables model and length, connectors, logo,Color(white/black/transperant).
Any required samples are available in 7 days.

Applications

Flexible solar panel is more portable and thin, can be bended maximum 30 degree, and is widely mounted on RV, boat, cabin, tent, car, trucks, trailers or any other irregular surface.


RV


TENT


Travel Tourism Car


Roof Power Generation


Yacht


Backpack