

# Sunpower Flexible Solar Panel

— ETFE+EVA+SUNPOWER CELL+EVA+TPT —



Flexible 30°



Light



Energy  
conservation



Cell Efficiency  
24%

20watt ~365watt



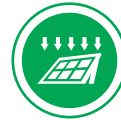
For, BIPV, RV, yacht, mobile energy and so on

# THE MAIN FEATURES



## Sunpower Solar Cell

Cell Efficiency 24%, delivering to your project the most powerful cell available on the commercial market



## ETFE Surface

Absorbs sunlight, no reflection. 95% transparency offers excellent efficiency in terms of light to electricity conversion



## Flexible

After bending, the solar panel can still be used, Perfectly adhered to various surfaces



## Ultra-Thin & Ultra-Light

Thickness 3.0 mm & Ultra-Light, so it can be used in most scenes where traditional solar panels can't be used



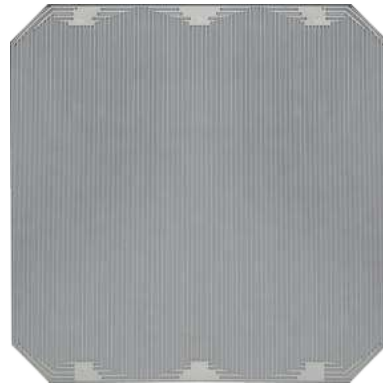
## Waterproof and Durable

Made of advanced waterproof materials, waterproof IP67, easy to clean, High temperature resistant



## Junction box

Junction box built-in diode and sealant glue, Sealed and waterproof, Strong stability and durability



## CELL PHYSICAL CHARACTERISTICS

Wafer: Monocrystalline silicon

Design: All back contact

Front: Uniform black antireflection coating

Back: Tin-coated copper metal grid

## FUNDAMENTALLY DIFFERENT AND BETTER

1. Ultra-pure, n-type, monocrystalline silicon for maximum power
2. Tin barrier prevents corrosion
3. Uniquely durable back-contact design with no ribbons
4. Clean and elegant aesthetics by designing out front contacts



## TRUSTED DURABILITY

Solid metal foundation helps cell bend where others break under pressure

Conductive and malleable foundation keeps cell electrically intact even if eventually cracked

Cells solder to lead-free components and are RoHS compliant

## PRODUCT SPECIFICATIONS

Maximum Power/Pmax(Wp)	Operating Voltage/Vmp(V)	Operating Current/Imp(A)	Open Circuit Voltage/Voc(V)	Short Circuit Current/Iscc(A)	Cell Efficiency	Weight (Kg)	Dimension (mm)
20	21.60	0.93	25.92	1.02	24%	0.3	434*277*3
30	19.20	1.56	23.04	1.72	24%	0.5	560*277*3
40	19.20	2.08	23.04	2.29	24%	0.6	535*378*3
60	19.20	3.13	23.04	3.44	24%	0.7	560*540*3
65	21.60	3.01	25.92	3.31	24%	0.8	625*540*3
75	24.00	3.13	28.80	3.44	24%	0.9	685*535*3
90	28.80	3.13	34.56	3.44	24%	1.0	810*540*3
105	16.80	6.25	20.16	6.88	24%	1.2	920*540*3
120	19.20	6.25	23.04	6.88	24%	1.6	1050*540*3
135	21.60	6.25	25.92	6.88	24%	1.8	1180*540*3
150	24.00	6.25	28.80	6.88	24%	2.0	1305*540*3
165	26.40	6.25	31.68	6.88	24%	2.2	1435*540*3
185	29.40	6.29	35.28	6.92	24%	2.5	1320*665*3
205	33.00	6.21	39.60	6.83	24%	2.7	1435*665*3
225	36.00	6.25	43.20	6.88	24%	2.9	1300*800*3
245	39.60	6.19	47.52	6.81	24%	3.2	1435*800*3
270	43.20	6.25	51.84	6.88	24%	3.5	1560*800*3
290	46.80	6.20	56.16	6.82	24%	4.0	1680*800*3
315	50.40	6.25	60.48	6.88	24%	4.3	1810*800*3
340	54.60	6.23	65.52	6.85	24%	4.7	1680*920*3
365	58.80	6.21	70.56	6.83	24%	5.2	1810*920*3

## 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 efficiency 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 ideally for use in marine environment
Flammability	Highly flame retardant. Suitable for use in temperatures ranging from -65 C to +150 C. 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 reflection	Will Reflect a large amount of sunlight. May cause light pollution

## WARRANTY & CERTIFICATE



Quality warranty in 5 years



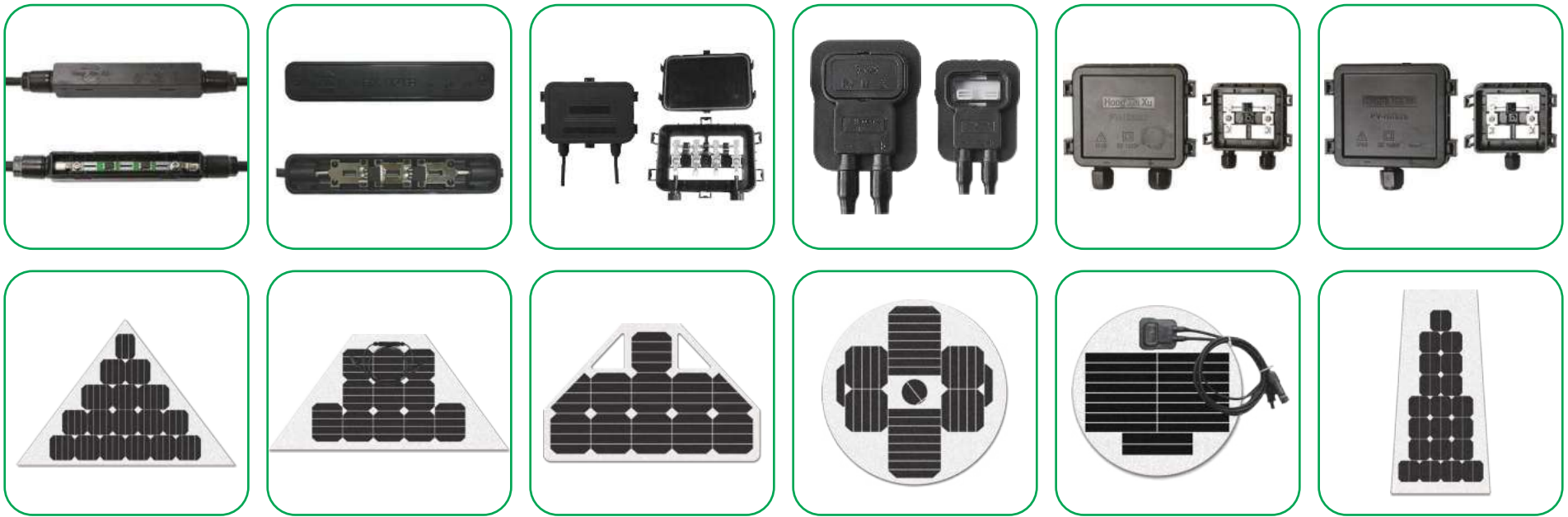
Any quality problems will be repaired or replaced if within the warranty period.



CE RoHS SGS IEC LVDT

## OEM SHOW

We have ability to make the solar panel in different specifications in accordance with clients project, any required samples are available in 7 days.  
Such as the panels shape, material usage, size and the voltage, all can be customized



## 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

