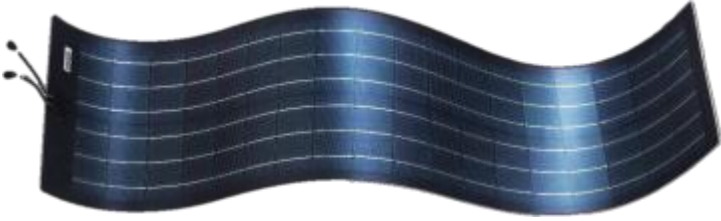




TENGYING

FLEX 2m



FLEX 6m



FLEX

Tengying New Energy Technology Co., Ltd. adopts the world's leading technology and process to achieve the local large-scale production of flexible CIGS (copper indium Gallium selenium) thin film solar panel. The FLEX series components produced by the company are flexible, thin and light, and have along service life. They are suitable for various forms of buildings, and have a wider range of use compared with other types of thin film technologies. Products have passed TUV, ISO, UL and other certifications, and have been successfully integrated into commercial, civil, public facilities and other fields.

Model	Binder	Size(mm)	Weight(kg)	Pmax (W)	Vmpp(V)	Imp (A)	Voc(V)
FLEX275	With-Glue	5750x492x3.5	9.9	275	51.5	5.3	67.6
FLEX250	Non-Glue	5750x492x2.7	7.5	250	48.6	5.1	65.4
FLEX185	With-Glue	3879x492x3.5	6.3	185	34.7	5.3	45.6
	Non-Glue	3879x492x2.7	5.2				
FLEX90	With-Glue	2015x492x3.5	3.3	90	16.5	5.4	22.0
FLEX100	Non-Glue	2015x492x2.7	2.6	100	27.8	5.6	23.3

Note

1: Standard test conditions (STC) : Cell temperature 25℃, solar radiation intensity 1000W/m², AM1.5 Solar reference spectrum (ASTM E892).

2: Pmax is within the calibration value range of ±7%.

3: Other electrical characteristics within the range of ±10% of the calibration value.

■ FLEX More excellent product features

	TENGYING CIGS products	Traditional crystalline silicon cells
Safe and reliable	Suitable for all roofs, including curved building surfaces. Such as airports, railway station and gymnasiums, parking sheds.	Cannot be installed on curved and low-bearing roofs. Such as color steel tile, locking roof, simple room and so on.
Thin and beautiful	The thickness is only 3mm; It fits perfectly into the surface of the building, maintaining its original. No additional wind resistance, anti-hail impact.	The thickness is generally about 45mm; The Angle requirement of vertical incidence of sunlight; Destroy the original style of the building and affect the appearance.
Low light is good	Low light performance is good, indoor lighting can generate electricity; Under the same installed capacity, the annual power generation is more than that of crystalline silicon The pool is 20%-30% more.	Low light environment basically does not generate electricity.

■ FLEX More Efficient Component structure



Safe and reliable	Designed with bypass tubes, insensitive to shadows, No heat spot effect, suitable for domestic haze, tide Humid climate.	Easy to cause heat spot effect, there are security risks. Example: Bierstadt, Germany, and Highville, England Kom did it in 2009 and 2011 There was fire in the crystalline silicon roof system								
Light load	<table border="1"> <thead> <tr> <th>CIGS system weight</th> <th>Increased load</th> <th>crystalline silicon</th> <th>Increased load</th> </tr> </thead> <tbody> <tr> <td>3.29 kg/m²</td> <td>32.2 N/m²</td> <td>30 kg/ m²</td> <td>440 N/m²</td> </tr> </tbody> </table>	CIGS system weight	Increased load	crystalline silicon	Increased load	3.29 kg/m ²	32.2 N/m ²	30 kg/ m ²	440 N/m ²	
CIGS system weight	Increased load	crystalline silicon	Increased load							
3.29 kg/m ²	32.2 N/m ²	30 kg/ m ²	440 N/m ²							

■ FLEX Easier installation requirement

Convenient Transportation	Flexible, folding, loading and unloading without damage, low logistics costs.	Glass package, fragile, high breakage rate during transportation, Logistics costs are about three times that of CIGS.	
Easy installation	Paste installation, no need for support; Only 1~2 operators, installation Convenient and fast, low cost.	Need to penetrate the roof installation bracket, may cause leakage; The installation process requires 3 to 4 people to cooperate, and the installation progress is slow. Wiring from the back of the panel is difficult	

■ FLEX Longer Product Durability

Maintenance-free	Using the same ETFE package as the water Cube; It has high transmittance, good durability and excellent self-cleaning performance Heterogeneous characteristics; No need for regular cleaning, low maintenance costs.	Need regular cleaning, polycrystalline maintenance costs are high, up to 5%~10% per year; If not properly maintained, the attenuation can be as high as 68% in the First three years.
Product durability	Components have almost no attenuation and a promised service life of 25 years; Output power ≥90% nominal power within 10 years, ≥80% nominal power within 25 years.	Fast decay, generally not more than 10 years of service life.