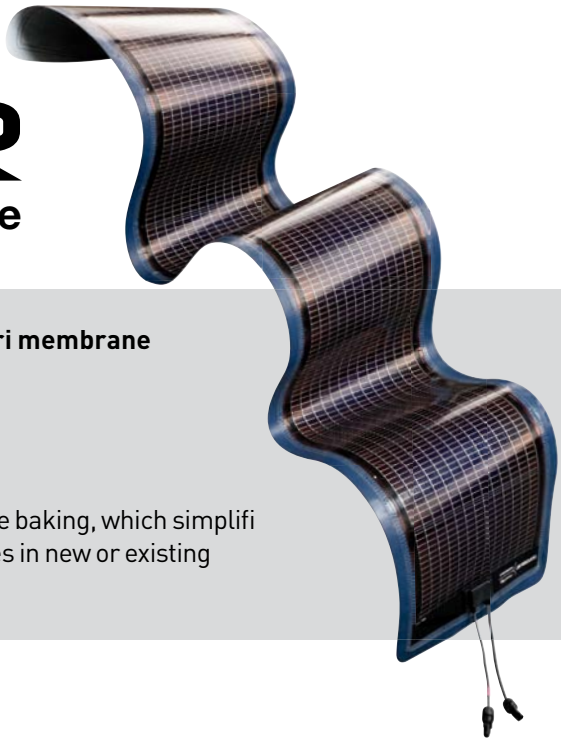
TEXYSOLAR

Self-adhesive photovoltaic membrane



Texysolar results from the combination of an exclusive Serge Ferrari membrane and Power Film photovoltaic panels which are joined by sewing.

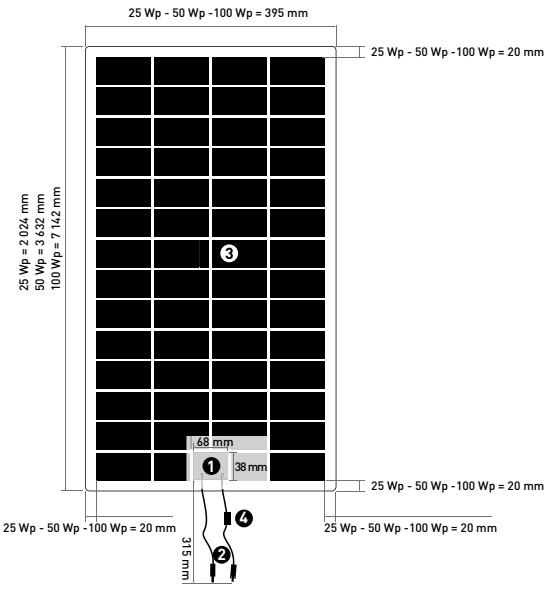
- Very high-performance silicone and fibre glass based membrane.
- Photovoltaic panels made of double junction amorphous silicon.
- Texysolar exclusiveness: the panel features a high-strength self-adhesive baking, which simplifi es installation and enhance durability on diverse surface types and shapes in new or existing textile structures.

Mechanical characteristics

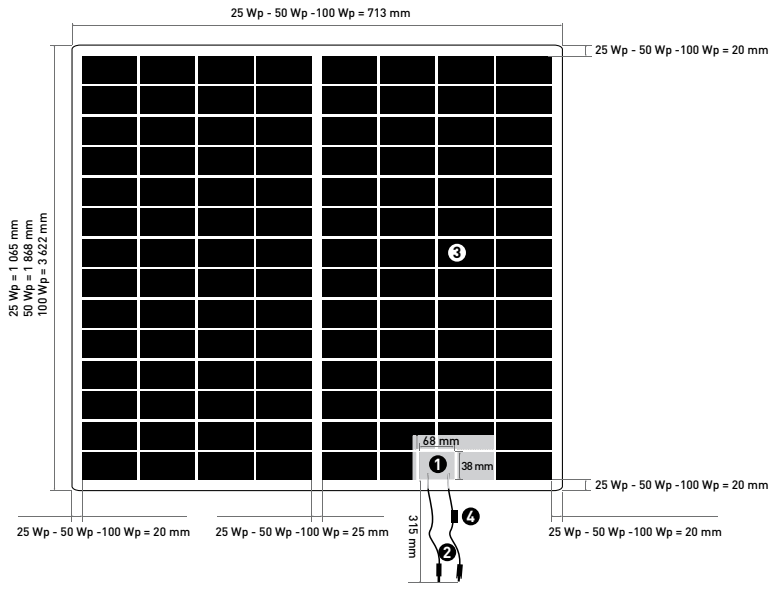
Mechanical characteristics	Texysolar 25 Wp		Texysolar 50 Wp		Texysolar 100 Wp	
	Single	Twin	Single	Twin	Single	Twin
Dimensions (mm)	395 x 2024	713 x 1065	395 x 3632	713 x 1868	395 x 7142	713 x 3622
Weight (kg)	1,15	1,1	1,95	1,85	3,75	3,55
Surfaces of the module	**Front surface :** ETFE polymer **/ Back surface :** composite film					
Cell type	Double-junction amorphous silicon solar cells					
Configuration	13 monolithically interconnected cells					
Junction box and cables	Meets IEC and UL standards					
Connectors	Multi-Contact MC 4					
Operating module temperature	- 40°C / + 85°C					

Technical drawings

Texysolar Single 25 Wp, 50 Wp and 100 Wp



Texysolar Twin 25 Wp, 50 Wp and 100 Wp



❶ Junction box ❷ Cables with MC 4 connectors ❸ Cells ❹ Specification plaque

Electrical characteristics

Electrical Data (@STC)		Texysolar 25 Wp		Texysolar 50 Wp		Texysolar 100 Wp	
		Single	Twin	Single	Twin	Single	Twin
Nominal power (Pmpp) (+5 / -0 Wp)	Wp	25	25	50	50	100	100
Voltage at maximum power (Vmpp)	V	15,4	15,4	15,4	15,4	15,4	15,4
Current at maximum power (Impp)	A	1,8	1,8	3,3	3,3	6,6	6,6
Open-circuit voltage (Voc)	V	23	23	23	23	23	23
Short-circuit current (Isc)	A	2,3	2,3	4,3	4,3	8,6	8,6
Maximum system voltage (V_{sys})	V	600	600	600	600	600	600
Limitting reverse current (I_R)	A	20	20	20	20	20	20

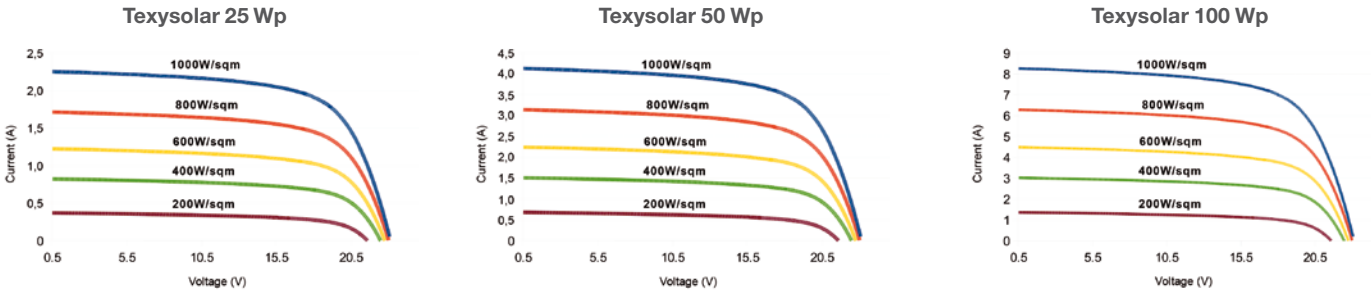
Nominal characteristics under standard test conditions (STC: 1000 watt/sqm - Cell temperature : 25°C - Spectrum 1.5 AM)
Tolerance of STC data measurements: +/-10%

Electrical Data (@NOCT)		Texysolar 25 Wp		Texysolar 50 Wp		Texysolar 100 Wp	
		Single	Twin	Single	Twin	Single	Twin
Nominal power (Pmpp) (+5 / -0 Wp)	Wp						
Voltage at maximum power (Vmpp)	V						
Current at maximum power (Impp)	A			In progress			
Open-circuit voltage (Voc)	V						
Short-circuit current (Isc)	A						

Nominal characteristics under standard test conditions (NOTC: 800 watt/sqm - 47± 3°C - Spectrum 1.5 AM)
Tolerance of NOCT data measurements: ± 10 %

Temperature coefficients *(1000 watt/sqm - Cell temperature : 25°C - Spectrum 1.5 AM)*							
Temperature coefficient of Pmpp	Y	(%/K)	- 0,19	Temperature coefficient of Isc	α	(%/K)	+ 0,07
Temperature coefficient of Voc	β	(%/K)	- 0,26				

Characteristics at various levels of irradiance



Texysolar I-V curves at various levels of irradiance (at AM 1.5 and 25°C cell temperature)

Qualifications and certifications

IEC 61646, IEC 61730, UL 17003 (in progress)

Instructions

The instructions given in the user manual must be scrupulously followed. Further information on the use of the product as recommended by Serge Ferrari are available in the installation guide.

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