



## Solar modules TX-series 12V

TX - light-weight solar modules with textile frame of high-quality tarpaulin fabric. Foldable, with up to 4 wings. For sprayhood, bimini, wind dress and cover. - Made in Germany.

### Product characteristics

- Circumferential soft fabric edge for mounting on textile surfaces / coverings
- Appropriate Tenax base parts for fastening are enclosed
- Multi-wing modules are foldable
- Each wing of a multi-wing module works independently.
- Waterproof plug and coupler are enclosed, for simple and quick electrical installation
- 0.4 m connecting cable + 10m cable (3m at TX-11027) are included
- 100% sea- & saltwater resistant
- Crystalline cells of highest performance class for maximum power
- Non-Glass-module with unbreakable Nowoflon foil
- Light-weight mounting plate, 3mm aluminium sandwich, powder-coated white, fully encased in EVA
- Cable output screwed, sealed and utterly water proof
- Ultraflat module construction (5mm), at cable output 15mm
- 100% maintenance-free, self-cleaning surface
- 3 years warranty on power output

		TX-11027	TX-12039	TX-12052	TX-22039	TX-22052	TX-42039	TX-42052
<b>Power*</b>	[Wp]	<b>17</b>	<b>38</b>	<b>50</b>	<b>76</b>	<b>100</b>	<b>152</b>	<b>200</b>
I <sub>sc</sub>	[A]	1,0	2,2	3,0	4,4	6,0	8,8	12,0
I <sub>max</sub>	[A]	0,9	2,0	2,7	4,0	5,5	8,0	11,0
Cell sizes	[mm]	52 x 52	39 x 156	52 x 156	39 x 156	52 x 156	39 x 156	52 x 156
Length A	[mm]	668	873	1106	873,0	1106	929	1164
Width	[mm]	333	431	431	826	826	1590	1590
Pack size height	[mm]	20	20	20	30	30	60	60
No. of Tenax fasteners		0	8	10	8	10	12	12
Weight netto	[kg]	1,0	2,2	2,6	4,2	4,6	8,2	8,6
Weight brutto	[kg]	1,5	5,4	6,4	7,2	8,8	11,7	14,4
Cable (2 x 1,5 mm <sup>2</sup> )	[m]	3,0	0,4+10,0	0,4+10,0	0,4+10,0	0,4+10,0	0,4+10,0	0,4+10,0
No. of wings		1	1	1	2	2	4	4

**Valid for all TX-modules:** U<sub>oc</sub> = 22,8V / laminate: ETFE/EVA/ETFE / for 12V-systems / carrier plate 3 mm sandwich, white / cable length 0,4m / serial connection only permitted for 24V systems / individually packed /

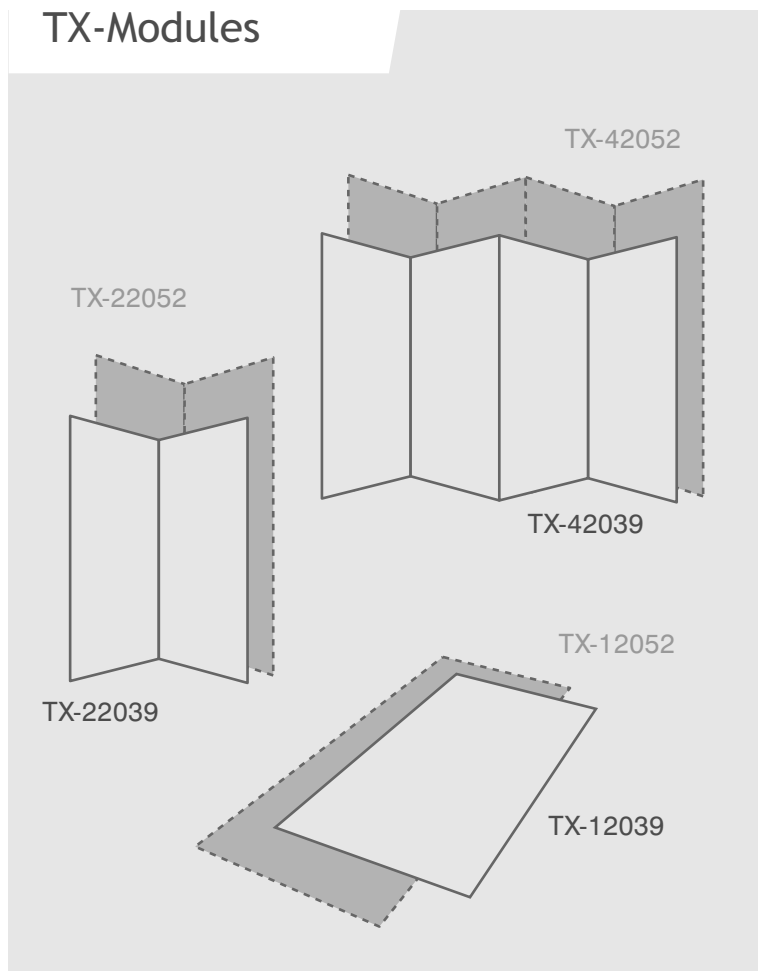
Environmental conditions: - 40 up + 85 °C, thermal characteristic values: TK I<sub>sc</sub>: -1,1mA/K, TK U<sub>oc</sub>: -2,3 mV/K, TK P<sub>mpp</sub>: -19.0 mW/K

\* According to STC (standard test conditions), AM 1,5, 1000 W/m<sup>2</sup>, 25°C, measuring tolerance: 10%.



Technical changes reserved. State 11/2016

## TX-Modules



## RANGE OF APPLICATIONS

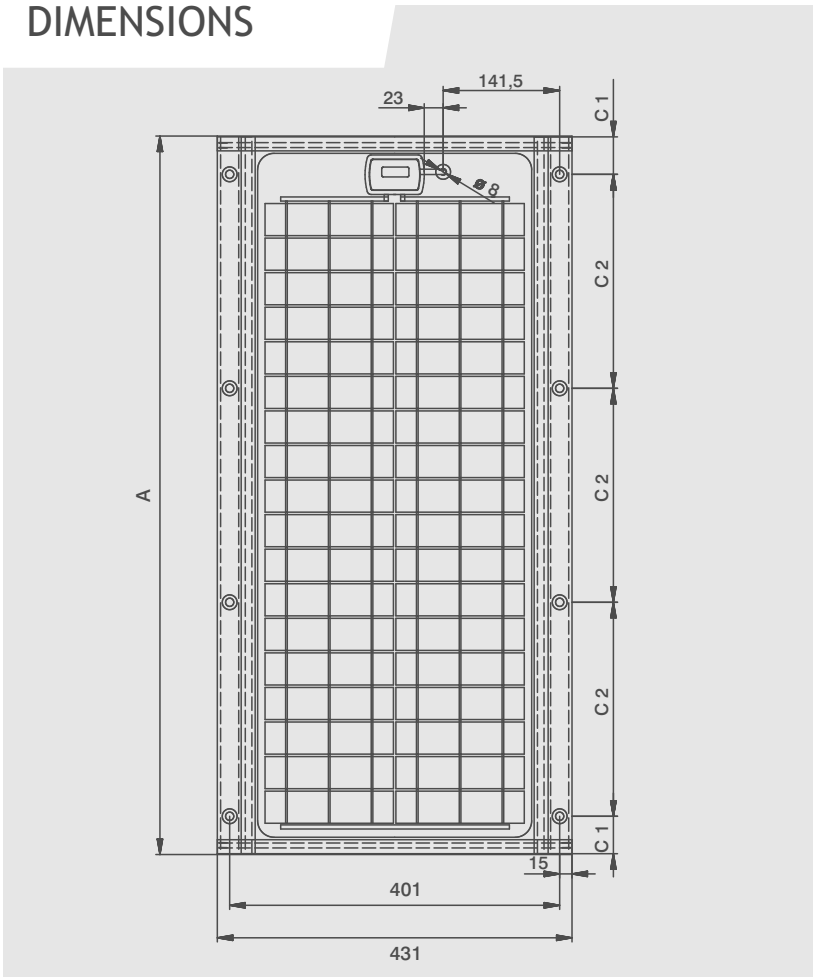
- For motor boats and sailing yachts
- For camping and caravan
- For mobile current supply



## Installation notes

- TX solar modules are sewn into a textile frame. The soft transition from the rigid module to the textile frame allows the modules to be fastened to taut textile surfaces such as sprayhood, bimini or tarpaulin.
- The module itself is fastened to textile tops using Tenax fasteners. Matching Tenax base parts for textile surfaces are enclosed with each module.
- Each wing of a multi-wing module works independently. This reduces power loss in case of partial shading.

## DIMENSIONS

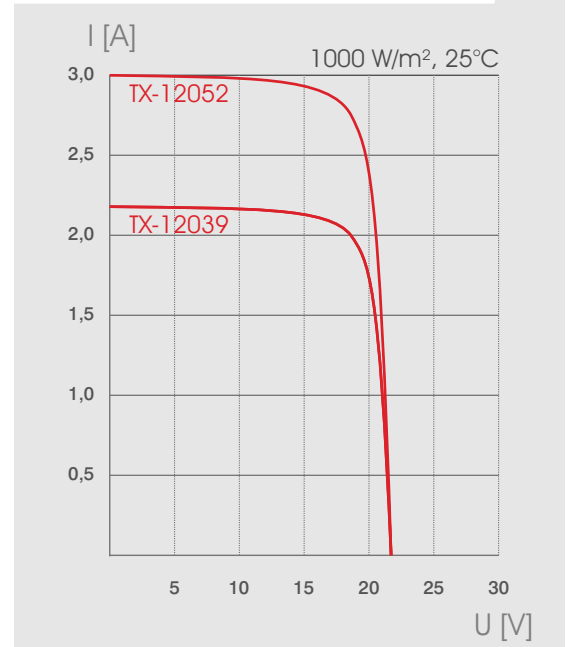


## TX-12039/12052

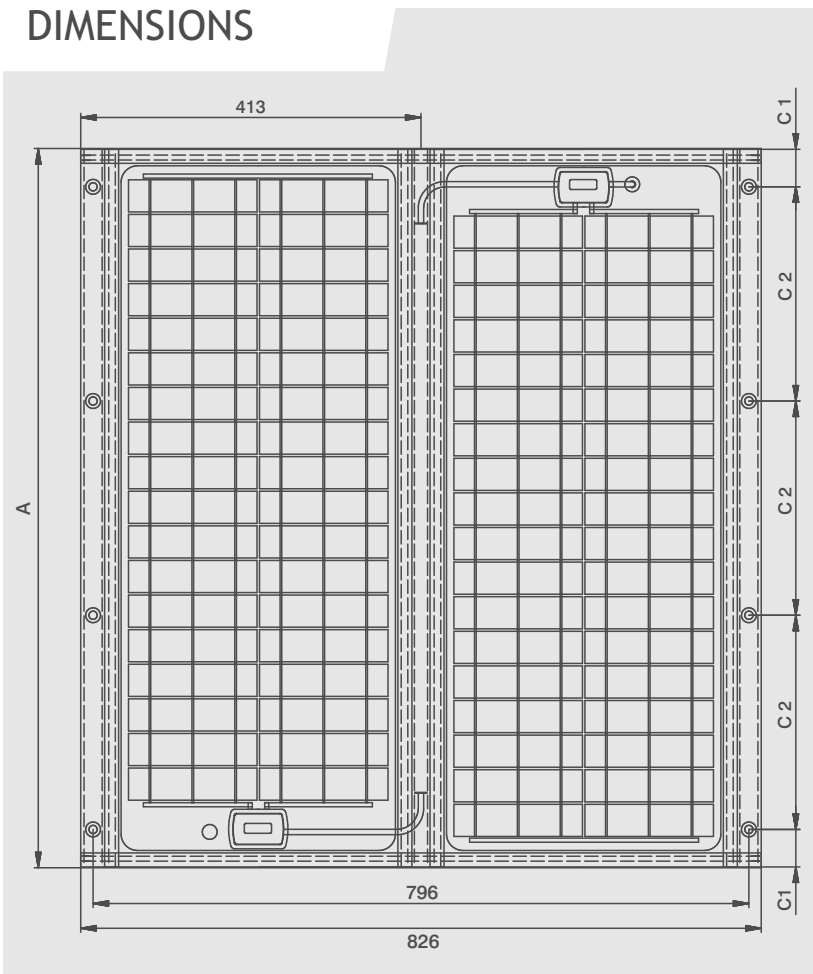
	A [mm]	C 1 [mm]	C 2 [mm]
TX-12039	873	45,5	260
TX-12052	1106	51,0	251

Technical drawings at [www.sunware.de/download](http://www.sunware.de/download)

## Electrical characteristic



## DIMENSIONS

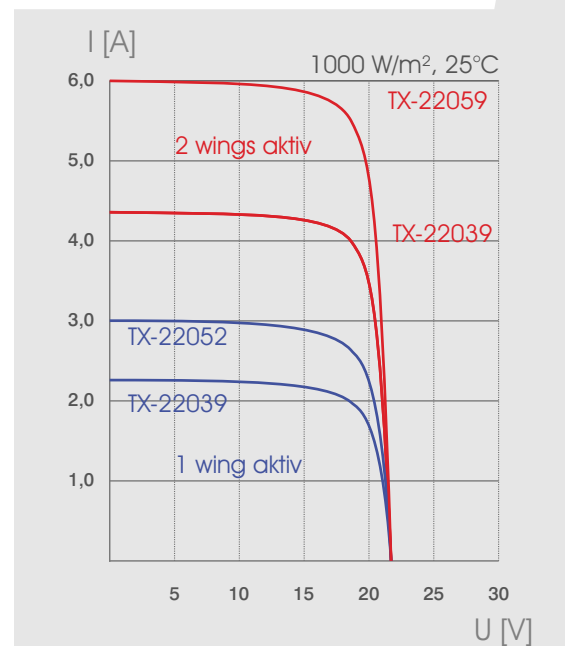


## TX-22039/22052

	A [mm]	C 1 [mm]	C 2 [mm]
TX-22039	873	45,5	260
TX-22052	1106	51,0	251

Technical drawings at [www.sunware.de/download](http://www.sunware.de/download)

## Electrical characteristic

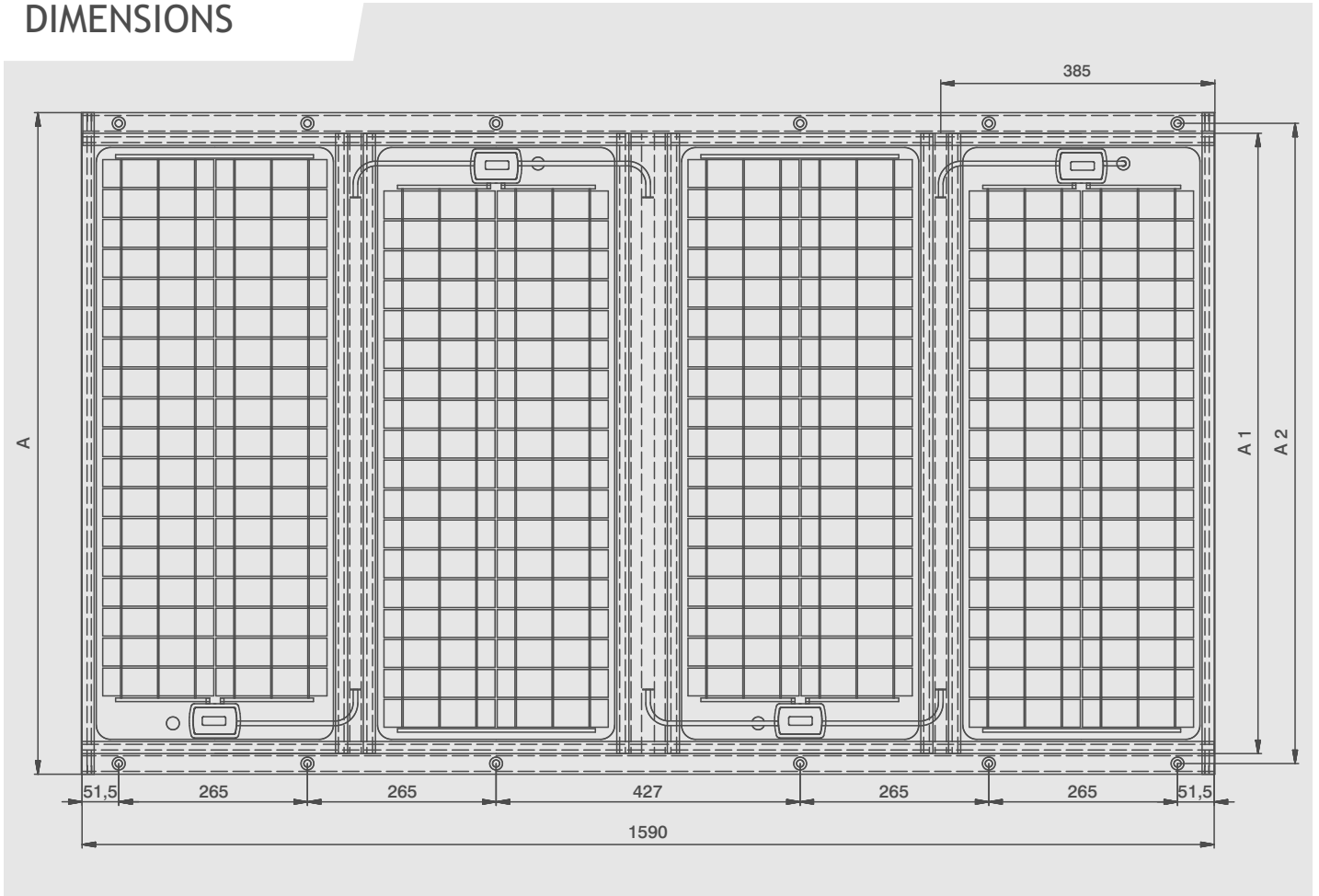


# TX-42039/42052

	A [mm]	A 1 [mm]	A 2 [mm]
TX-42039	929	871	899
TX-42052	1164	1106	1134

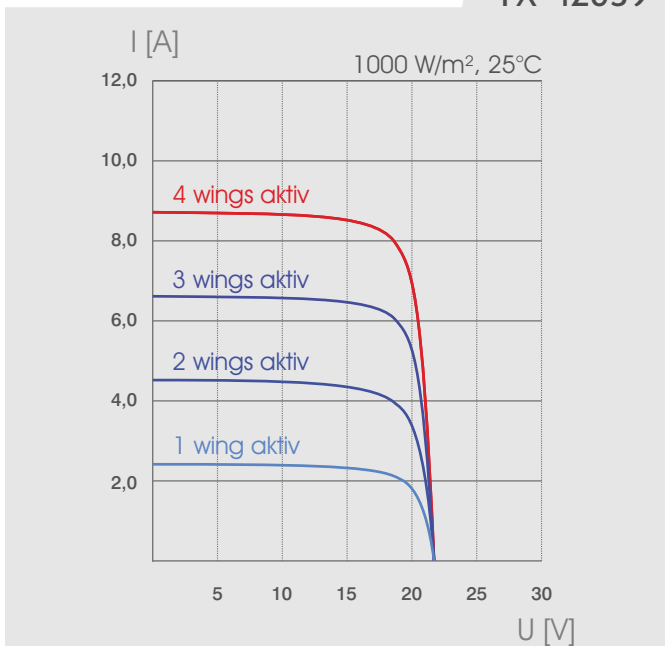
Technical drawings at [www.sunware.de/download](http://www.sunware.de/download)

## DIMENSIONS



## Electrical characteristic

TX-42039



## Electrical characteristic

TX-42052

