

## Solar modules K-series 12V

Solar modules, optimized for small dimensions, with cable outlet front side mounted. Designed for boats, flat trucks, navigation aids, sea buoys, streetlamps and many other. Made in Germany.

### Product characteristics

- 100% sea- & saltwater resistant
- Non-Glass-module with unbreakable Nowoflon foil
- Mounting plate made from saltwater resistant, powder-coated stainless steel
- Cable output screwed, sealed and utterly water proof
- Crystalline cells of highest performance class for maximum power
- Ultraflat module construction (5mm), at cable output 15mm
- Connection cable of 3m length
- Rounded corners to prevent risk of injuries
- On the side, the laminate overhangs the mounting plate by approx. 5mm for a maximum of corrosion protection
- Structured surface reduces slip risks when wet
- 100% maintenance-free, self-cleaning surface
- Installation without rear ventilation by module structure with 39 cells; either adhesive or SunWare-clips
- Walkable when installed on a solid surface (using boat shoes)
- Modules can be slightly bent till max. 3% (3cm/1 meter)
- 3 years warranty on power output

		SW-5065	SW-5066
<b>Power*</b>	[Wp]	<b>48</b>	<b>69</b>
I <sub>sc</sub>	[A]	2,4	3,6
I <sub>max</sub>	[A]	2,2	3,3
Cell sizes	[mm]	66 x 100	100 x 100
Length A	[mm]	780	600
Width B	[mm]	460	891
Bore holes (D=4,5mm)		4	4
Weight netto	[kg]	4,0	5,6
Weight brutto	[kg]	5,4	7,6
Cable	[mm <sup>2</sup> ]	3 x 1,5	3 x 1,5
Cell-protector		yes	yes

**Valid for all modules:** U<sub>oc</sub> = 24,6V / laminate: ETFE, EVA, stainless steel / 39 cells / for 12V-systems / individually packed / cable length 3m / carrier plate VA (1.4571) pulver coated white / serial connection only permitted for 24V systems

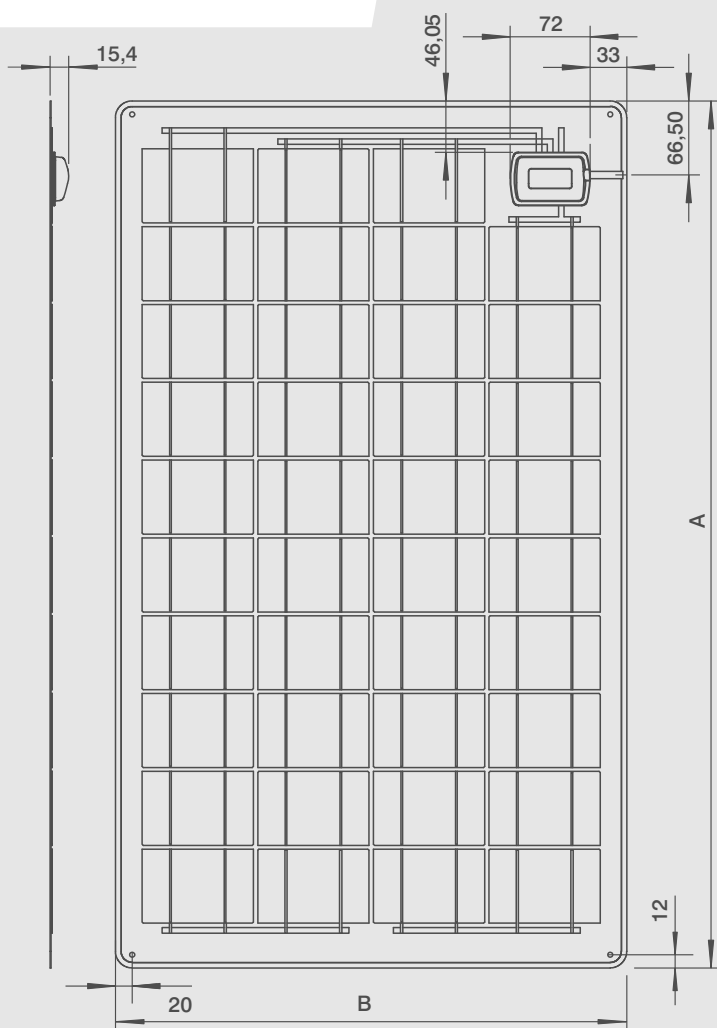
Environmental conditions : - 40 up to + 85 °C, thermal characteristic values: TK I<sub>sc</sub>: -1,1mA/K, TK U<sub>oc</sub>: -2,3 mV/K, TK P<sub>mpp</sub>: -19.0 mW/K

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



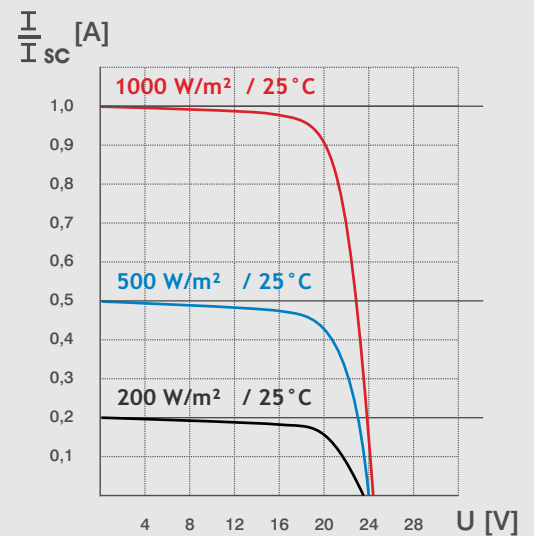
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## DIMENSIONS



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

## Electrical characteristic



## RANGE OF APPLICATIONS

- For motor boats and sailing yachts
- For camping and caravan
- For mobile current supply
- For industry, shipping and building sector

