



Length 572 mm  
Width 680 mm  
Height 34 mm  
Frame Aluminum  
Weight 4.8 kg

**Product Launch**  
Beginning of 2009

## Sunmodule® SW 40 poly/R6A

With its Sunmodule® SW 40 poly/R6A SolarWorld presents a photovoltaic module ideally suitable for both off-grid and small on-grid applications. Highest quality standards are applied in the entire manufacturing process. SolarWorld's in-depth expertise ensures best performance and highest energy yields over the entire lifespan, even under challenging climatic conditions.

The Sunmodule® is particularly used in rural applications such as solar home systems or street lighting. It also covers a wide range of industrial electrification applications in remote areas, e.g. powering off-grid telecom or monitoring systems.

The compact dimensions of the Sunmodule® and the solid workmanship of its aluminum frame allow easy and flexible mounting. The design of the water repellent junction box makes wiring easy and secure. The junction box is equipped with two cable glands and two easy to wire spring-type clamps, so no special tools are needed. This simplifies installation and speeds up the installation process.



SolarWorld. And EveryDay is a SunDay.

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# Sunmodule<sup>®</sup>

## SW 40 poly/R6A

### Performance under standard test conditions (STC\*)

		SW 40
Maximum power	$P_{max}$	40 Wp
Open circuit voltage	$V_{oc}$	21.5V
Maximum power point voltage	$V_{mpp}$	17.9 V
Short circuit current	$I_{sc}$	2.41 A
Maximum power point current	$I_{mpp}$	2.24 A

\*STC: 1000W/m<sup>2</sup>, 25°C, AM 1.5

### Performance at 800 W/m<sup>2</sup>, NOCT, AM 1.5

		SW 40
Maximum power	$P_{max}$	28.7 Wp
Open circuit voltage	$V_{oc}$	19.4 V
Maximum power point voltage	$V_{mpp}$	16.1 V
Short circuit current	$I_{sc}$	1.99 A
Maximum power point current	$I_{mpp}$	1.78 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m<sup>2</sup>, 95% (+/- 10%) of the STC efficiency (1000 W/m<sup>2</sup>) is achieved.

### Component materials

Cells per module	36
Cell type	polycrystalline silicon
Cell dimensions	52 x 156 mm <sup>2</sup>

### System integration parameters

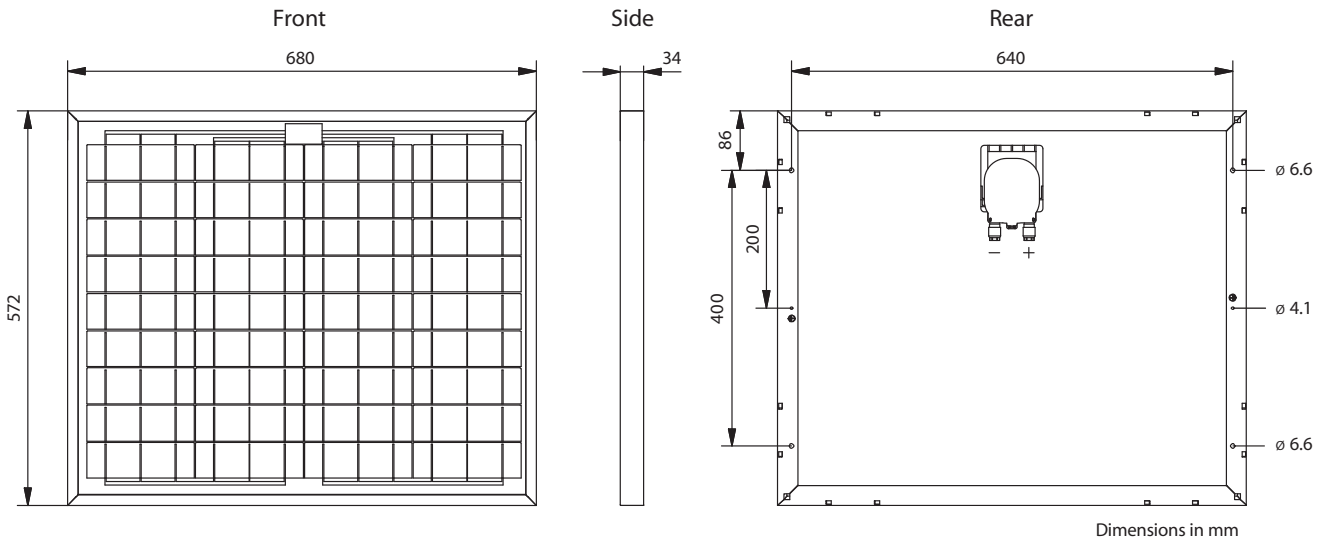
Maximum system voltage SC II	1000 V <sub>DC</sub>
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### Thermal characteristics

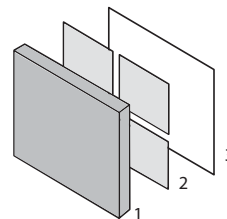
NOCT	46°C
TC $I_{sc}$	0.034 %/K
TC $V_{oc}$	-0.34 %/K

### Additional data

Power tolerance	+/- 10 %
Maximum outer cable diameter	6.9 mm
Maximum wire cross section	4 mm <sup>2</sup> (AWG 12)

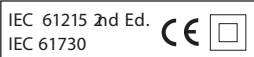


### Construction



- 1] Front: tempered glass
- 2] crystalline solar cells embedded in EVA (ethylene-vinyl-acetate)
- 3] Rear: Multilayer

In preparation



SolarWorld AG reserves the right to make specification changes without notice.