



Sunmodule® SW 40 poly/RGA

With its Sunmodule® SW 40 poly/RGA 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.



Sunmodule®

SW 40 poly/RGA

Performance under standard test conditions (STC*)

		SW 40
Maximum power	P_{max}	40 Wp
Open circuit voltage	V_{oc}	21.5 V
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/m², 25°C, AM 1.5

Performance at 800 W/m², 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/m², 95% (+/- 10%) of the STC efficiency (1000 W/m²) is achieved.

Component materials

Cells per module	36
Cell type	polycrystalline silicon
Cell dimensions	52 x 156 mm ²

System integration parameters

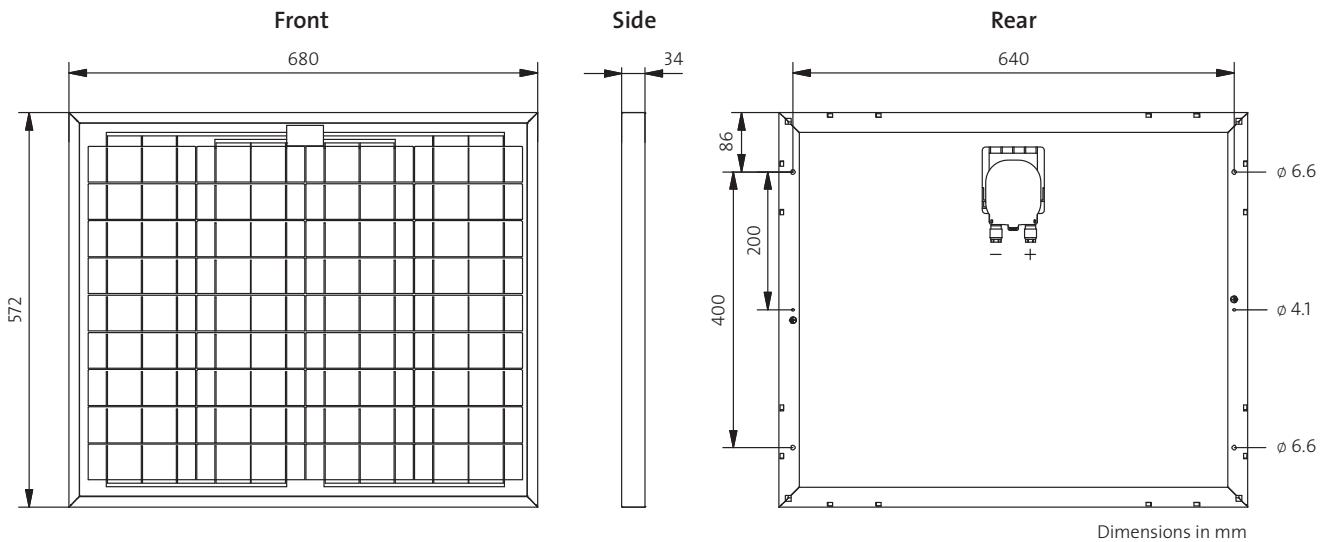
Maximum system voltage SC II	1000 V _{DC}
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Thermal characteristics

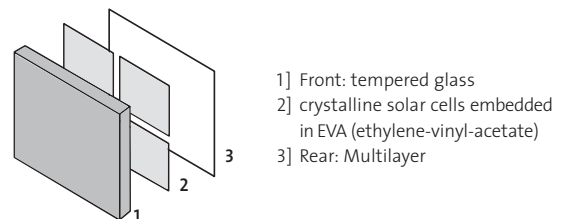
NOCT	46°C
TC I_{sc}	0.034 %/K
TC V_{oc}	-0.34 %/K

Additional data

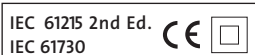
Power tolerance	+/- 10 %
Maximum outer cable diameter	6.9 mm
Maximum wire cross section	4 mm ² (AWG 12)



Construction



In preparation



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