



Top performance from a quality leader.

SolarWorld AG is among the largest solar energy companies in the world. At every stage of the value-added chain, from raw materials to turn-key solar power plants, we offer products of the very highest quality. This has been confirmed once again in an endurance test that proved SolarWorld modules to be at the top of the class. SolarWorld AG ensures the high performance of its products with rigorous research and development. The company makes a significant contribution to sustainable value generation by fully recycling their solar power modules and creating a complete production cycle.

Sustainable success – winner of the 2008 German Sustainability Award, the SolarWorld AG business model combines economic prosperity with social responsibility and environmental protection.

Benefits at-a-glance.

- > **German technology**
With SolarWorld, you've chosen premium products that meet German quality standards.
- > **Many years of experience**
With over 30 years of production expertise, SolarWorld AG has been a world market leader for many years.
- > **25-year performance guaranty**
Robust, high-performance products ensure stable output over the long term.
- > **Superb products**
An endurance test performed by the trade magazine Photon ranked modules from SolarWorld in first place.

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SolarWorld. And EveryDay is a SunDay.



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The text and illustrations are technically up-to-date at the time of going to press. Subject to modifications. Valid as of: May 2009



Sunmodule[®] for off-grid solutions
High quality and performance

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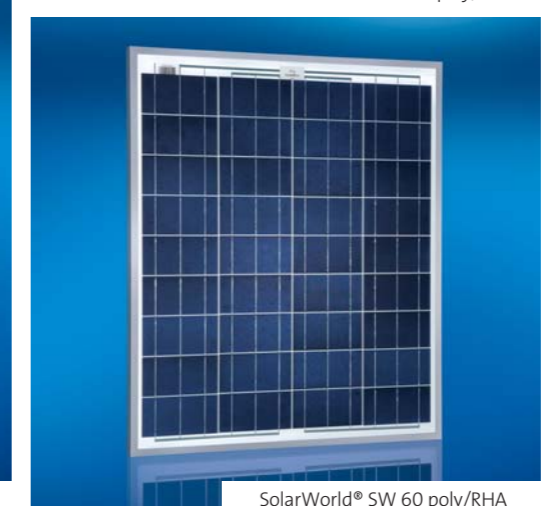
Sunmodule® SW 120 poly/R6A



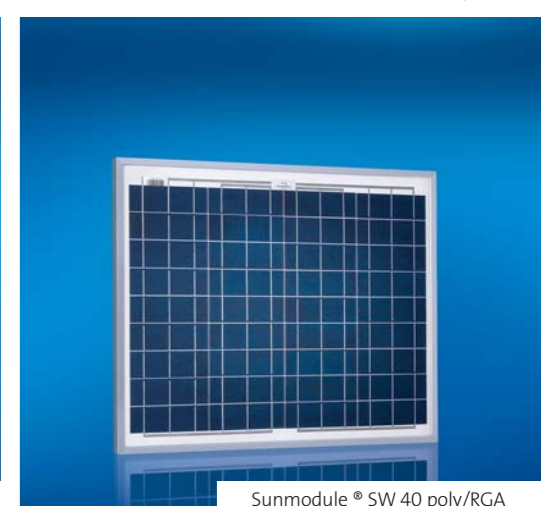
Sunmodule® SW 80 poly/RIA



SolarWorld® SW 80 mono/R5A



SolarWorld® SW 60 poly/RHA



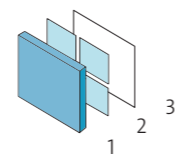
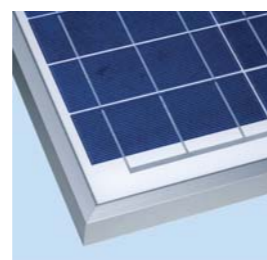
Sunmodule® SW 40 poly/RGA

Top-quality products for every application

Sunmodule® is produced in SolarWorld®'s state-of-the-art technology to the highest possible standards of quality.

Design

The cells are protected by hardened-glass protective glazing and are embedded in transparent EVA (Ethylene-Vinyl-Acetate). The rear of the module is sealed using a high-quality plastic film. The outstanding mechanical stability of the Sunmodule® is a direct result of the depth at which the glass is inserted into the frame and the complete adhesion of the laminate to the frame.



- 1 Front side: hardened glass
- 2 The cells are embedded in EVA (Ethylene-Vinyl-Acetate)
- 3 Rear side: plastic film

Electrical connection

The flat, compact junction box provides perfect protection against corrosion, as well as the capacity to rapidly dissipate any excess heat providing lower operating temperatures. The junction box is reliably connected by a solid bond to ensure lasting functionality. High-quality, spring-type clamps enable quick and secure wiring without the need of special tools. The possibility to recycle the modules and a 25-year performance guaranty are the finishing touches to this top-quality product.



Quality control

Continuous monitoring and control of the manufacturing process, from wafers to cells to the finished module guarantee the high quality standards of the Sunmodule® at every stage of the production. Company-integrated process tracking and a comprehensive quality management system ensure constantly high levels of quality for each and every module.

High-quality, reliability, high-performance

Excelling properties of the Sunmodule®:

- > **High rigidity**
The glass is inserted deeply into the module frame and both are firmly attached to each other.
- > **Constant performance**
The wide frame and its flat transition to the glass surface increases the self-cleaning effect of the Sunmodule® and prevents performance loss caused by dirt deposits.
- > **Temperature protection**
Holes in the hollow section prevent the build-up of condensation water caused by temperature fluctuations and protect the frame from damage caused by freeze-thaw cycles.
- > **High flexibility**
The minimum distance between the cells and the module frame allows the Sunmodule® to be installed horizontally as well as vertically.
- > **Long-term performance guaranty**
The possibility to recycle the modules and a 25-year performance guaranty round off this top-quality product.
- > **Global quality standards**
Certification of the Sunmodule® in accordance with IEC-standards proves the product satisfies international quality control standards.