

Sunmodule[®] –

Quality and performance



SolarWorld. And EveryDay is a SunDay.

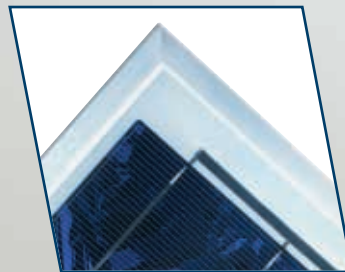


Top-quality products for every application

SolarWorld's state-of-the-art, fully automated production plants produce highest-quality Sunmodule[®]. The 5" or 6" cells and the different module dimensions ensure the suitability of the products for all applications in solar power technology – from the rooftop to the large-scale plant.

Design

The cells lie behind a hardened-glass glazing and are embedded in transparent EVA (ethylene-vinyl-acetate). The rear of the modules is sealed using a high-quality Tedlar film. The outstanding stability of the Sunmodule[®] is the direct result of the high depth at which the glass is inserted in the frame and adhering the frame using laminate.



Electrical connections

Using a patented process, the connection box is attached to the rear and processed so there are no hollow spaces. This process ensures that the connection box is waterproof as well as UV and weather-resistant. High-performance bypass diodes protect the Sunmodule[®] during shadowing and thus ensure long-term operation.



Quality control

The continuous monitoring and controlling of the manufacturing processes, from the wafer to the cells to the completed module, meets the high quality standards of the products. The company-integrated process tracking and the comprehensive quality management system assure a constant high level of quality for each product.



High-quality and reliability

Stable performance, maximum yields

Produced in automated manufacturing processes, the poly- and monocrystalline Sunmodule[✓] provide excellent efficiency and absolute reliability. All Sunmodule[✓] power classes are distinguished by the following product characteristics:

› Constant productivity

The wide frame and its flat transition to the glass surface increase the self-cleaning effect of the Sunmodule[✓] and prevent performance loss caused by dirt deposits.

› High stability

The high insertion depth of the glass and glueing the laminate into the frame ensure outstanding stability.

› Extreme temperature stability

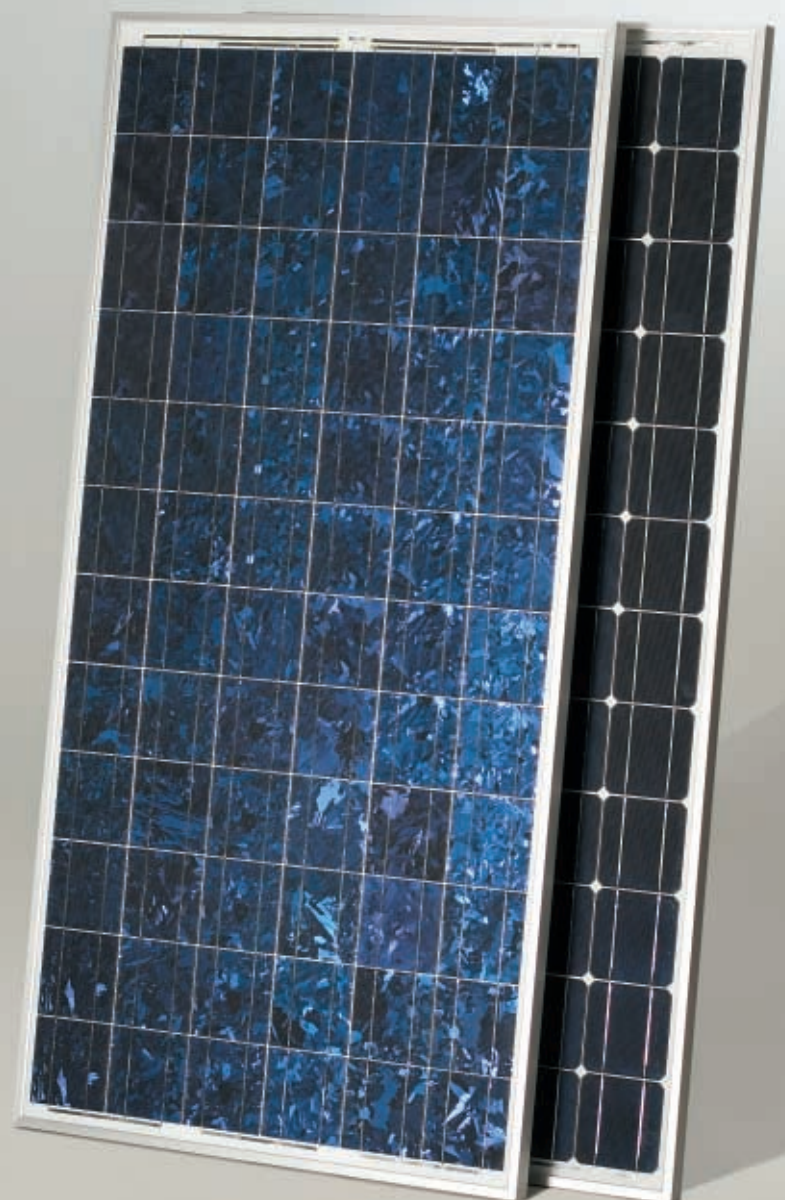
The drill holes in the hollow section prevent the build-up of condensation water caused by temperature fluctuations and also prevent the frame from freezing due to frost.

› Increased flexibility

The minimum distance of 10 mm between the cells and the module frame allow the Sunmodule[✓] to be installed both horizontally as well as vertically.

› Long-term performance warranties

25-year performance warranties emphasise the high-quality of the Sunmodule[✓].



Sunmodule[✓] with 5"-Cells

Output: 155-185 Wp +/- 3 %

Dimensions: L 1610 x W 810 x H 34 mm

Variable and efficient

Universal usage and the best efficiency

Top-quality in 5" or 6" cell technology: the Sunmodule[®] is suitable for use in many application areas. Whether for roof areas or ground-mounted systems – there is a large selection of Sunmodule[®] available for planning and design.

Sunmodule[®] with 5"-Cells

The classic Sunmodule[®] versions are available in both mono- and polycrystalline versions and their absolute reliability has stood the test of time.

Sunmodule[®] with 6"-Cells

The modern 6" cell format perfectly complements the SolarWorld product range. Together with the Sunplug[®] inverters, this Sunmodule[®] create the perfect combination.



Sunmodule[®] with 6"-Cells

Output: 200-230 Wp +/- 3 %

Dimensions: L 1675 x W 1001 x H 34 mm

Custom made assembly kits



Drawing on years of experience and fully utilising their modern manufacturing facilities has enabled SolarWorld to develop technically advanced and reliable solutions and to implement them in a practical manner. Whether flat and pitched roofs, roof-integrated or ground-mounted systems, SolarWorld® provides complete SunkitS mounting kits for every field of application.

The SunkitS mounting kits consist of the selected module type, the inverter that has been specifically adjusted to the selected module type and the required mounting frame as well as the corresponding accessories. The sole use of aluminium and stainless steel components in constructing the mounting systems ensures the extremely high durability of the system.

Each SunkitS mounting kit is individually assembled according to the customer's building requirements.

Component overview of the
SunkitS mounting kit



The SolarWorld AG

The SolarWorld AG covers the entire solar energy manufacturing chain, from the raw silicon to wafers and cells to solar energy modules. An internal process tracking procedure within each production step produces top-quality products in controlled manufacturer quality.



Silicon

Joint Solar Silicon GmbH & Co. KG, Freiberg, Germany

Production of the raw material silicon

Joint Venture with Degussa AG



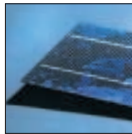
Wafer

Deutsche Solar AG, Freiberg, Germany

Production of wafers

Division:
Solar Material

Recycling of solar products



Cells

Deutsche Cell GmbH, Freiberg, Germany

Production of solar cells



Modules

Solar Factory GmbH, Freiberg, Germany

Gällivare PhotoVoltaic AB (GPV), Schweden

Production of solar modules



Commerce

SolarWorld AG, Bonn, Germany

Solar module and mounting kit sales



SolarWorld. And EveryDay is a SunDay.

SolarWorld AG
Kurt-Schumacher-Straße 12-14
D-53113 Bonn

+49 (0) 700-SOLARWORLD/ 76 52 79 67
(6.2 EURO CENT PER HALF MINUTE WITHIN GERMANY)

service@solarworld.de
www.solarworld.de