



**QUALITY
INSIDE**

SOLAR POWER TECHNOLOGY

MADE BY SOLARWORLD

WITH SOLARWORLD I GET SOLUTIONS MADE IN GERMANY

THIS IS OUR PROMISE TO OUR CUSTOMERS



SOLARWORLD takes a decisive step forward and sets new standards for quality, performance and durability.

At our production facilities in Freiberg, Saxony, and Arnstadt, Thuringia, we manufacture products of the highest quality. Our module testing procedures far exceed typical industry standards and ensure that our products will last for over 30 years. In situations of extreme temperature changes or high mechanical loads, our customers

can rely on the durability and weather resistance of our solar modules. Why? Because we test our products based on real-world conditions – and for the entire service life of the modules. This enables us to provide extensive performance and product guarantees.

SOLARWORLD QUALITY: The best long-term deal.

SOLARWORLD PRODUCTS – THE BEST LONG-TERM DEAL

QUALITY INSIDE

With SolarWorld, you get reliable quality that lasts for years and ensures high energy yields. We offer a 20-year guarantee on our products, which is twice as long as the industry standard.

20-YEAR PRODUCT GUARANTEE

PROVEN QUALITY

We provide all SolarWorld modules with mono PERC cell technology in 10 Wp power classes. For our customers, this means, on average, more power per nominal power class. Our dealers and installers benefit from the reduced number of articles and higher availability.

MODULES WITH UP TO 9.9 W OVER THEIR NOMINAL POWER

HIGHER YIELDS

BISUN PROTECT MODULES WITH UP TO 25% HIGHER YIELDS

Double-sided light utilization is a further development of PERC technology. As a result, our Bisun protect modules achieve up to 25 percent higher yields per kWp, which means higher returns with shorter amortization time.

BETTER PERFORMANCE

30-YEAR PERFORMANCE GUARANTEE

Our bifacial Bisun modules rely on glass-glass technology to ensure a long lifespan and extreme durability. An innovative rear side coating allows customers to achieve even higher energy yields over the entire service life. As a result, we are extending our performance guarantee for Bisun protect modules to 30 years!

PEAK PERFORMANCE THANKS TO PERC TECHNOLOGY

Thanks to an improved cell architecture and the use of five busbars, modules using PERC technology produce more power in each cell, and with this, more power in each module. Installation costs are reduced, since fewer modules have to be installed to achieve the system performance. For our customers, an impressive benefit, especially with limited roof area.

WITH EVERY INNOVATION, OUR MODULE CRITERIA FOR LONG-LASTING QUALITY FAR EXCEED CURRENT INDUSTRY STANDARDS.

Our innovative PERC modules offer high performance and durability. More than 40 years of technology, market and research experience provide SolarWorld with the ability to offer innovations of outstanding quality. We focus exclusively on the production and sale of high-performance monocrystalline modules using PERC and bifacial technology.



www.solarworld.com/sunmodule

SOLARWORLD SOLAR MODULES: QUALITY DOWN TO THE SMALLEST DETAIL

**QUALITY
INSIDE**



**MODULE
CORNERS**

The drainage corner with integrated water outlet improves the self-cleaning properties of the module and thus increases the yield.

**MODULE
FRAMES**

The 33 mm-high module frame ensures even greater stability with its unique, wave-shaped reinforced profile. The new frame is easier to hold and more scratch-resistant during installation.

Greater cell spacings ensure a higher light yield. Increased distance between the cells and the module edge reduces the risk of performance loss due to accumulated dirt.

**CELL
ASSEMBLY**

**SOLAR
GLASS**

The structured, hardened solar glass offers a thinner profile and hence a significant reduction in weight. Our glass-film modules are about 15% or 3.2 kg lighter, which makes handling at the construction site easier than ever.

**MODULE
FRAMES**



The rear flange facilitates fastening and grounding from the back. Together with the extended clamp on the short side of the module, this ensures maximum flexibility during installation.

QUALITY

**JUNCTION
BOX**



The welded, fully sealed junction box is designed to withstand extreme loads over many years and prevent failures due to water intrusion. The connectors we use are compatible with all standard solar cables.

Our solar modules not only provide reliable high yields for decades to come, but also meet the highest standards in terms of rooftop design and functionality. All our modules feature a black frame and high-efficiency mono PERC or bifacial cells. We also strive to ensure that all of our modules have a consistent look. The result: A homogeneous, aesthetic appearance for the entire solar power system.



www.solarworld.com/sunmodule

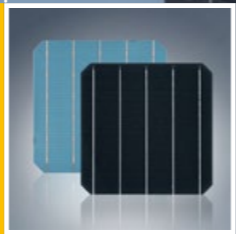
THE SOLARWORLD SUNMODULE BISUN PROTECT THE HIGHEST IN EFFICIENCY AND SAFETY – OVER 30 YEARS

**QUALITY
INSIDE**

For our bifacial solar module, the Sunmodule Bisun protect, we use a special glass on both the front and back of the module. This provides optimal protection for the solar cells, which are active on both sides, and ensures reliable high yields for decades. For this reason, we offer a 30-year performance guarantee on our Sunmodule Bisun protect.

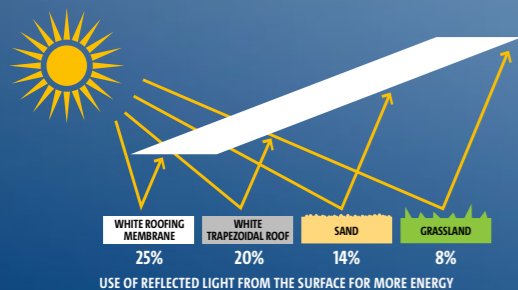
GLASS-GLASS
ASSEMBLY

**BIFACIAL
CELL
TECHNOLOGY**



OPTIMUM
ON A
LARGE SCALE

BOTH SIDES
ARE ACTIVE



The Sunmodule Bisun protect is particularly suitable for ground-mounted systems and flat roofs. If the solar module is used on surfaces such as light-colored concrete or white roofing foil, more light is reflected into the module and the energy yield increases even more. The brighter the surface, the higher the output generated. However, the bifacial module also shows higher yield than comparable standard modules on non-optimized surfaces such as grass, sand or trapezoidal sheet.

The new Sunmodule Bisun protect delivers high yields all around. It is a solar module active on both sides that converts light from all directions into power. This ensures up to 25% more yield per installed kWp.

Double-sided light utilization, or bifaciality, is based on recent advances in PERC cell technology. SolarWorld is the first manufacturer to use this innovation in mass production and hence is setting new industry standards.

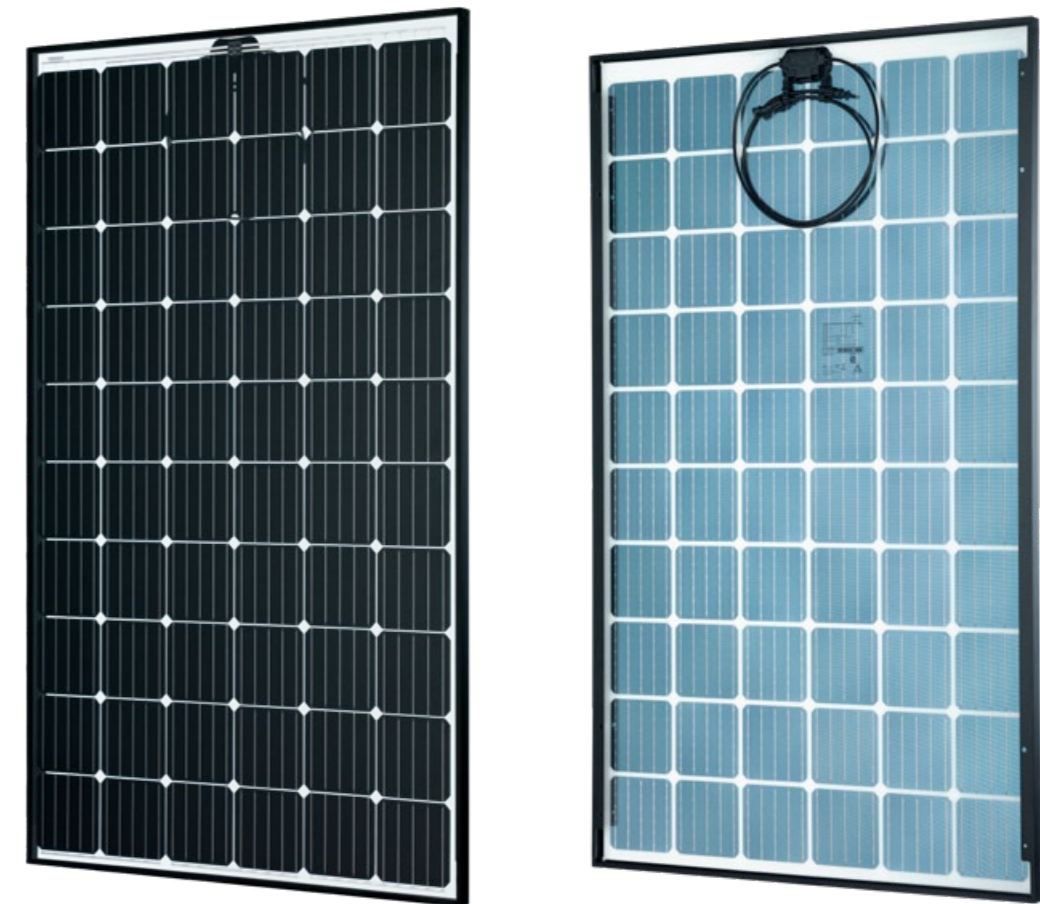


www.solarworld.de/en/products/sunmodule-bisun-protect

SUNMODULE PLUS

HIGH-PERFORMANCE MODULE WITH STATE-OF-THE-ART TECHNOLOGY

- » Easy to install, light, stable, scratch-resistant and tested under extreme environmental conditions
- » Front glass with an anti-reflective coating
- » A lightweight solution with increased stability, providing a maximum mechanical durability of 8.5 kN/m²
- » Sunmodule Plus SW mono with black frame and Sunmodule Plus SW mono black for a completely black module
- » 20-year product guarantee
- » All modules with mono PERC cell technology in 10 W power classes



SUNMODULE BISUN PROTECT

THE BIFACIAL GLASS-GLASS MODULE

- » Up to 25% more yield thanks to innovative bifacial technology
- » Higher returns with shorter amortization time
- » Extremely long service life by using glass on the front and rear sides of the module
- » Especially suitable for ground-mounted systems and flat roofs
- » Performance increase due to reflective grid structure
- » 20-year product guarantee and 30-year linear performance guarantee



FIND OUT MORE

Do you have any questions about SolarWorld's quality standards or individual products? Then don't hesitate to contact us.

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