

Our product name components

Mono S4
Our fourth cell generation with a dimension of approx. 182 x 182 mm.

Mono S5
Our fifth cell generation with dimensions of approx. 210 x 210 mm.

Halfcut (HC)
The cell is cut into two equal parts using half-cut technology.

Innovation Powerline
stands for optimum cell format utilisation, maximum transparency around the bifacial cell in a double glass.

Installer Series
describes our special module series in a “handy” format (1650 x 880 mm) for installers.

Trend
stands for optimised performance - bifacial cell in a double glass module with maximum utilisation of the 2-square-metre limit = 1.998m².

Black
We use for glass-glass modules in black with a transparent back.

White
We use for glass-glass modules with white grid lines printed on the transparent back.

General product information

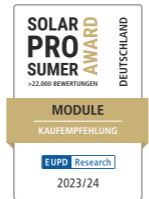
- + Highly transparent, self-cleaning glass
- + Resistant to environmental influences: Resistant to ammonia & salt spray
- + Multibusbar technology for optimum energy distribution
- + All modules have a maximum system voltage of 1500V
- + Module connection & cable: MC4 or similar, 4.0 mm², cable length: (+) ≥ 1200 mm, (-) ≥ 1200 mm
- + Junction box: Protection class IP68
- + Fire class: A according to IEC standard 61730-2 (UL 790, UL 1703)
- + Hail protection: Class 5; ice balls with max. 50 mm Ø and a speed of up to 32.2 m/s
- + Snow load: 5400 Pa ± 550 kg/m²
S5 HC: 8,100 Pa test (5,400 Pa design: IEC 61215/61730 safety factor 1.5)

Excellent quality

Solar Fabrik products offer many years of experience, innovation and first-class quality. We carefully select components and carry out long-term tests and strict quality controls. Our products are TÜV-certified and fulfil German quality standards with aesthetic demands. All our solar modules come with a German warranty. In the residential format (smaller than 2 square metres) and for glass-glass modules, we offer 30 years on product and performance. For glass-foil and glass-glass modules in project format, you receive 15 years on the product and 25 years on the output



The neutral assessment of the company’s performance by EUPD Research is based on extensive analyses and the development and application of innovative quality models. Solar Fabrik has received the coveted award every year since 2020.



EUPD Research surveyed German consumers on brand awareness, product distribution and recommendation. Solar Fabrik has been one of the top brands since 2022 and has received the EUPD Research SolarProsumerAward for outstanding performance for the second time.



The Energy Transition Award (EWA) is presented to manufacturers who are driving forward the energy transition in Germany in the individual aspects of electricity, heat, energy efficiency and mobility in an exemplary manner through their commitment. The award emphasises our claim: “Solar Fabrik helps everyone to become part of the energy transition. Together we are creating a better future.”



In the quarters 4/2022, 1/2023 and 2/2023, Solar Fabrik was classified as a Tier 1 manufacturer for solar modules by Bloomberg New Energy Finance. The title is one of the most recognised awards a company can achieve. The classification is based on a comparison of the bankability of the respective manufacturers.



The CrefoZert is awarded by the German Creditreform to companies that can demonstrate excellent creditworthiness, optimal business behaviour and a positive forecast for the future. For the 2022 financial year, Solar Fabrik has been awarded the CrefoZert with the best possible CR1 rating for the first time.

Valid as of: 23.04.2024

Summer 2024

Our product range in detail



Design difference Black & White

In the development of our solar modules, we attach great importance to a combination of high quality, performance, attractive design and aesthetic features. With the new S4 Trend module series, Solar Fabrik is continuing this tradition by placing particular emphasis on design, which is already reflected in the product name.

S4 Trend Black

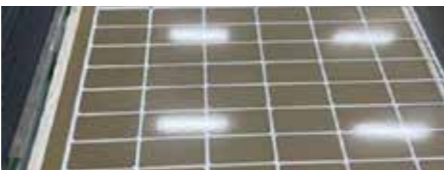
Our designation “Black” stands for transparent double-glazed modules whose construction and cell arrangement on pitched roofs create an almost completely black appearance. Depending on the viewing angle, the transparency between the cells gives the black a subtle colour nuance that blends harmoniously with the roof surface. This design feature is already familiar from our Mono S4 Halfcut Innovation Powerline series. The transparency also improves the bifacial power consumption of the N-TYPE/TOPCon cell and increases the efficiency of the modules.

S4 Trend White

The term “White” stands for our transparent double glass modules, which are characterised by white grid lines (white mesh) on the underside of the glass. This look is reminiscent of glass-foil modules, but offers the quality and durability of traditional glass-glass modules. The white grid lines between the cells ensure cross-reflection of the sunlight, which increases the output of the modules by several percent.



Our specialist partner Schön Solar GmbH from “Pfaffenhofen an der Ilm” demonstrates the transparent look of the S4 Trend Black on the roof (centre). On the right, the almost black look installed on the roof. On the left you can see modules with the look of the S4 Trend White.



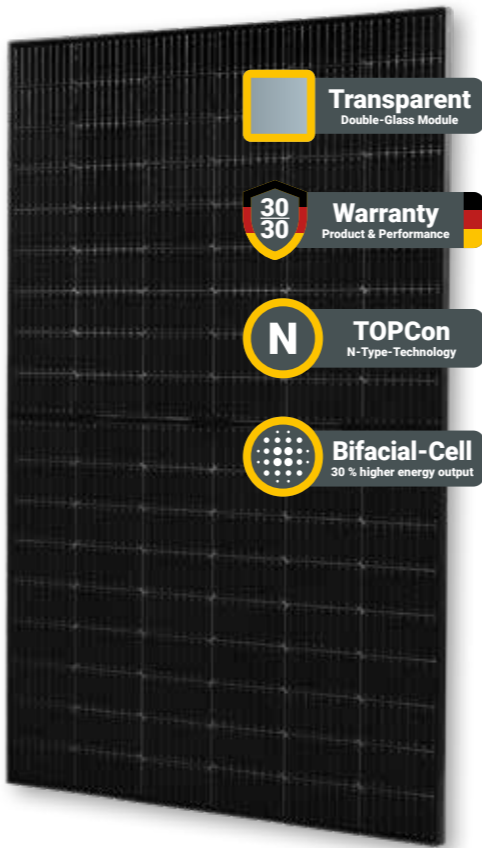
On the S4 Trend White, white grid lines are printed on the lower glass to improve performance - no film!

Mono S4 Halfcut | Trend Black

435 W / 440 W / 445 W

Bifacial double-glass module in a black design with a transparent back and N-TYPE/TOPCon cell technology. The power module in the residential and commercial sector makes optimum use of the 2 square metre limit.

Electrical data under STC				
Rated power	P _{max}	435 W	440 W	445 W
Sorting limits of performance		0/+5 W	0/+5 W	0/+5 W
Voltage	U _{MPP}	32.22 V	32.49 V	32.80 V
Open circuit voltage	U _{OC}	37.75 V	38.07 V	38.29 V
Current	I _{MPP}	13.50 A	13.54 A	13.56 A
Short-circuit current	I _{SC}	14.32 A	14.33 A	14.39 A
Efficiency		21.77 %	22.02 %	22.27 %
Module details				
Number of cells		108 N-Type bifacial monocrystalline half cells (6 x 18)		
Module dimensions / surface		1762 x 1134 x 30 mm / 1.998 m²		
Weight		ca. 25.9 kg		
Logistics				
Dimension pallet (L/W/H)		180/114/125 cm		
Weight pallet		approx. 962 kg		
Modules per pallet		36		
Modules per truck		1008		
Modules per Container [40' HC]		936		



+ Area utilisation factor
223 W/m² at 445 W

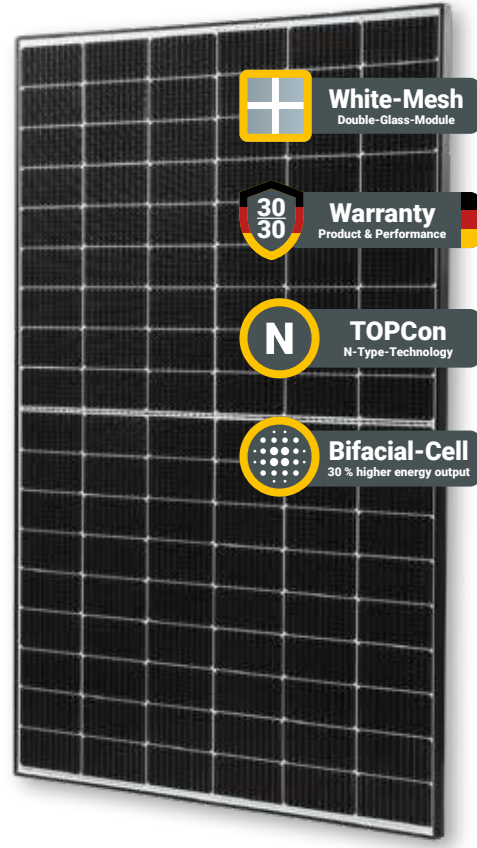
Mono S4 Halfcut | Trend White

440 W / 445 W / 450 W

Bifacial double glass module with white grid lines and transparent rear side with N-TYPE/TOPCon cell technology. The efficiency module in the residential and commercial sector makes optimum use of the 2 square metre limit.

Electrical data under STC				
Rated power	P _{max}	440 W	445 W	450 W
Sorting limits of performance		0/+5 W	0/+5 W	0/+5 W
Voltage	U _{MPP}	32.49 V	32.80 V	32.82 V
Open circuit voltage	U _{OC}	38.07 V	38.29 V	39.30 V
Current	I _{MPP}	13.54 A	13.56 A	13.71 A
Short-circuit current	I _{SC}	14.33 A	14.39 A	14.48 A
Efficiency		22.00 %	22.30 %	22.30 %
Module details				
Number of cells		108 N-Type bifacial monocrystalline half cells (6 x 18)		
Module dimensions / surface		1762 x 1134 x 30 mm / 1.998 m²		
Weight		ca. 25.9 kg		
Logistics				
Dimension pallet (L/W/H)		180/114/125 cm		
Weight pallet		ca. 962 kg		
Modules per pallet		36		
Modules per truck		1008		
Modules per Container [40' HC]		936		

The product is also sold under the name Mono S4 Halfcut Trend Powerline.



+ Area utilisation factor
225 W/m² at 450 W

Made in Germany is coming



The „Made in Germany“ project is finally becoming a reality. Construction work on the production hall in Hösbach, Aschaffenburg region, has been underway since April 2024. One of the most modern solar module production facilities

in Germany is being built nearby our headquarters. The plant is designed for 300 megawatts for the initial launch. From 2025, events and guided tours for our specialist partners will also take place there in addition to production.

Mono S4 Halfcut | Innovation Powerline

420 W / 425 W / 430 W

Bifacial double-glazed module in black look with transparent back, N-TYPE/TOPCon cell technology, very popular for pitched roofs in the residential sector. Our design standard in proven quality and top performance.

Electrical data under STC				
Rated power	P _{max}	420 W	425 W	430 W
Sorting limits of performance		0/+3 %	0/+3 %	0/+3 %
Voltage	U _{MPP}	31.91 V	32.22 V	32.49 V
Open circuit voltage	U _{OC}	37.58 V	37.75 V	38.07 V
Current	I _{MPP}	13.16 A	13.19 A	13.24 A
Short-circuit current	I _{SC}	13.93 A	13.99 A	14.00 A
Efficiency		21.50 %	21.80 %	22.00 %
Module details				
Number of cells		108 N-Type bifacial monocrystalline half cells (6 x 18)		
Module dimensions / surface		1722 x 1134 x 30 mm / 1.953 m²		
Weight		ca. 23.7 kg		
Logistics				
Maße Palette (L/W/H)		177/114/125 cm		
Weight pallet		approx. 883 kg		
Modules per pallet		36		
Modules per truck		1008		
Modules per Container [40' HC]		936		



+ Area utilisation factor
220 W/m² at 430 W

Mono S5 Halfcut | Installer Series

315 W

Double glass module with bifacial monocrystalline N-Type/TOPCon half cells. The “handy” format is particularly suitable for angled roof areas with dormers and skylights as well as for repowering.

Electrical data under STC		
Rated power	P _{max}	315 W
Sorting limits of performance		0/+5 W
Voltage	U _{MPP}	35.84 V
Open circuit voltage	U _{OC}	42.42 V
Current	I _{MPP}	8.79 A
Short-circuit current	I _{SC}	9.28 A
Efficiency		21.69 %
Module details		
Number of cells		60 N-Type bifacial monocrystalline half cells (4 x 15)
Module dimensions / surface		1650 x 880 x 30 mm / 1.452 m ²
Weight		ca. 18.5 kg
Logistics		
Dimension pallet (L/W/H)		170/114/105 cm
Weight pallet		ca. 680 kg
Modules per pallet		36
Modules per truck		1008
Modules per Container [40' HC]		1008



+ Area utilisation factor
217 W/m² at 315 W