

Mono S4 Halfcut | Trend White

440 W / 445 W / 450 W

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

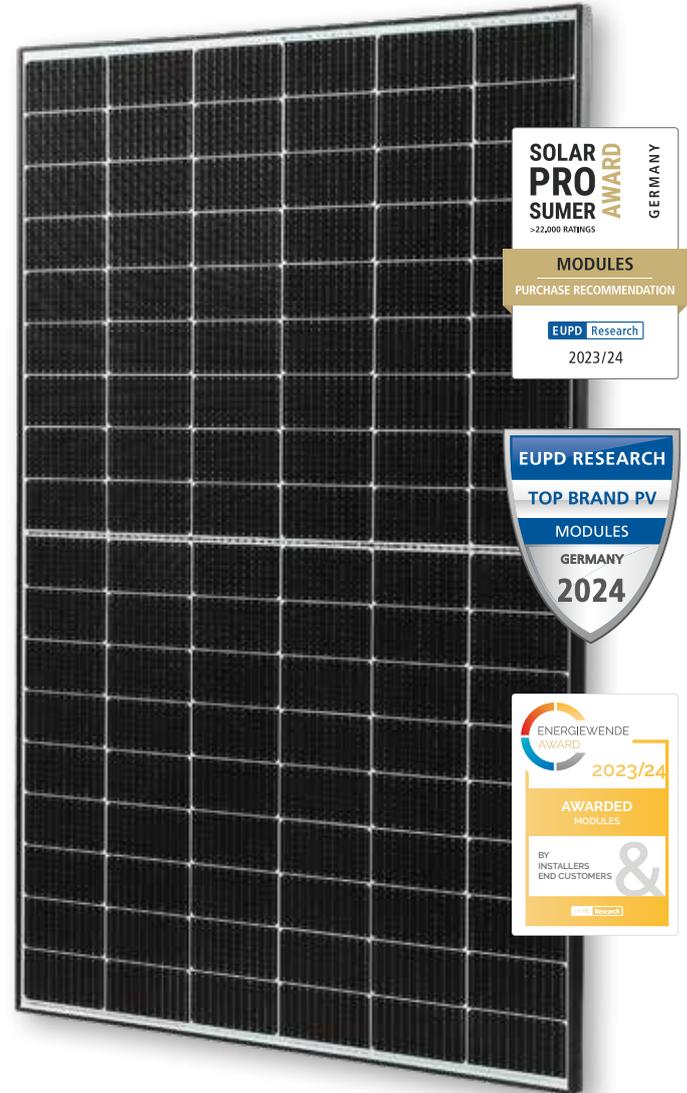
Especially suitable for:



Residential



Commercial



German warranty

30-year guarantee on the product and 30 years on the module performance



Hail protection class 4

Resistant to ice balls with a maximum diameter of 40 mm and a speed of 29.2 m/s



Fire protection glass A

Best possible fire protection certification for solar modules with German TÜV certificate.



Area utilisation factor

225 W/m² at 450 W. Better comparability through watt output per square metre



White Mesh

Transparent double glass solar module with a white print between the cells



Bifacial cell

Transparent cell with additional energy on the back of the cell



N-type technology

TopCon solar module with N-Type technology for even more peak performance



Half-cell module

Two-part cell for more efficiency, more safety and more reliability



Low-light behaviour

Outstanding performance even under low light conditions



Glass cover

Resistant to ammonia & salt spray
Highly transparent, self-cleaning glass

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Electrical data under STC

(Standard Test Conditions: 1000 W/m², 25 °C, AM 1.5, Measuring tolerance: ± 3%)

Parameter	Symbol	440 W	445 W	450 W
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}	32.47 V	32.65 V	32.82 V
Open circuit voltage	U_{OC}	38.90 V	39.10 V	39.30 V
Current	I_{MPP}	13.55 A	13.63 A	13.71 A
Short-circuit current	I_{SC}	14.32 A	14.40 A	14.48 A
Efficiency		22.00 %	22.30 %	22.50 %

Temperature data

Operating temperature		- 40° C bis + 85° C
Nominal operating cell temperature		43° C ± 2° C
Power temperature coefficient	$T_K (P_{MPP})$	- 0.300 %/°C
Voltage temperature coefficient	$T_K (U_{OC})$	- 0.280 %/°C
Current temperature coefficient	$T_K (I_{SC})$	0.040 %/°C

Further information

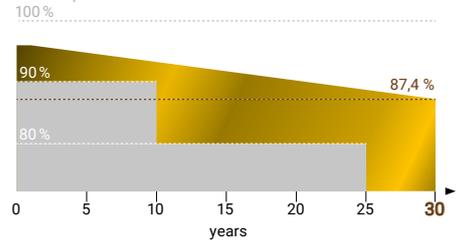
Number of cells	108 N-Type bifacial monocrystalline half cells (6 x 18)
Module dimensions	1762 x 1134 x 30 mm
Type of Frame	black anodized aluminium alloy
Max. system voltage	1500 V
Reverse current loading capability	30 A
Glass thickness	Frontside/Backside: 2.0 mm/2.0 mm
Weight	approx. 24.9 kg
Module connection	MC4 or similar, 4.0 mm ² , cable length: (+) ≥ 1200 mm, (-) ≥ 1200 mm
Junction box rating	IP68
Allowable Hail Load	40 mm iceball with velocity of 29.2 m/s
Snow load	5400 Pa $\hat{=}$ 550 kg/m ²
Fire class	A according to IEC standard 61730-2 (UL 790, UL 1703)

30 years product warranty, 30 years linear performance warranty according to our additional warranty conditions for solar power modules of the "Mono S4 Halfcut Trend White" product series, which we will gladly send you. Due to the tolerance of the anti-reflective coating, colour differences in the solar modules may occur. Also commercially available under the name Mono S4 Halfcut Trend Powerline.

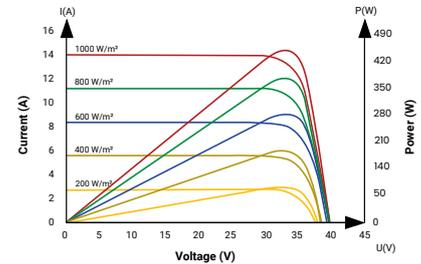
Logistic

Dimension pallet (L/W/H)	180/114/125 cm
Weight pallet	ca. 926 kg
Modules per pallet	36
Modules per truck	1008
Modules per Container [40' HC]	936

Module performance



■ Linear performance warranty for Double-Glas Solar Modules
 ■ Standard tiered warranty



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