



Creating a Powerful Future

37 %
Transparency

Mono S4 Halfcut | Transparency Project

380 W

Highly efficient bifacial glass module for use in open fields and in the Agri-PV sector

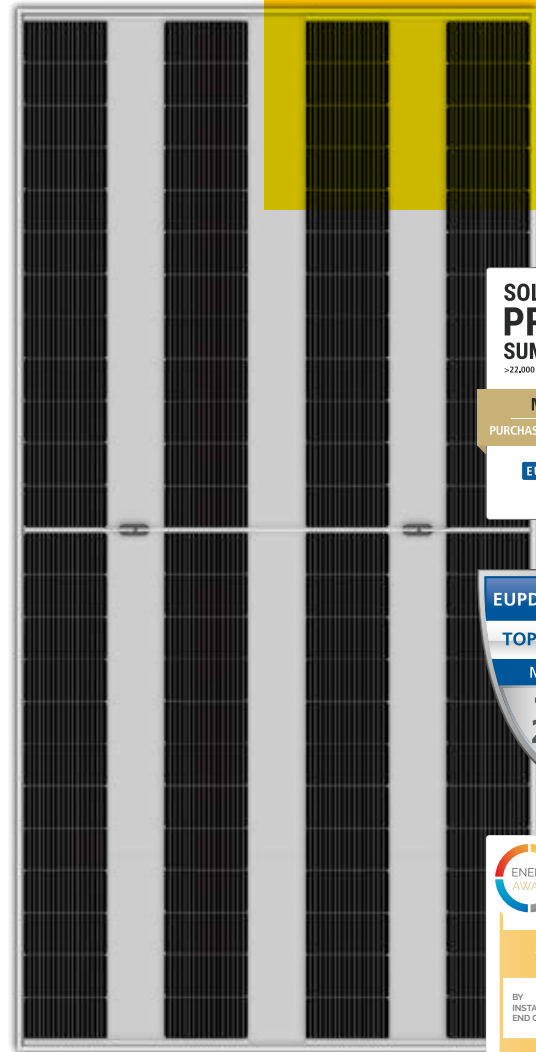
Especially suitable for:



Solar Parks/Agri-PV



Commercial



German warranty

15-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

147 W/m² at 380 W. Better comparability through watt output per square metre



Transparent

Transparent double glass solar module



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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380 W

Electrical data under STC

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

Rated power	P_{max}	380 W
Sorting limits of performance		0/+5 W
Voltage	U_{MPP}	29.12 V
Open circuit voltage	U_{OC}	34.75 V
Current	I_{MPP}	13.05 A
Short-circuit current	I_{SC}	13.86 A
Efficiency		14.70 %

Temperature data

Operating temperature		- 40° C ~ + 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

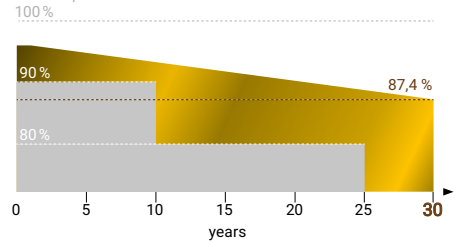
Number of cells	96 N-Type monocrystalline half-cells (4 x 24)
Module dimensions	2278 x 1134 x 30 mm
Type of Frame	Anodized aluminum alloy (Silver/Black)
Max. system voltage	1500 V
Reverse current loading capability	30 A
Glass thickness	Front: 2 mm, tempered, anti-reflective glass Back: 2 mm, tempered glass
Weight	approx. 31.5 kg
Module connection	MC4 compatible or similar, 4.0 mm ² , Cable length: (+) ≥ 1200 mm, (-) ≥ 1200 mm
Junction box rating	Protection class IP68
Allowable Hail Load	Hailstones with a maximum diameter of 40 mm and a speed of up to 29.2 m/s
Snow load	5400 Pa $\hat{=}$ 550 kg/m ²
Fire class	Class A according to IEC standard 61730-2 (UL 790, UL 1703)

15-year product warranty, 30-year linear performance warranty according to our additional warranty conditions for solar modules of the „Mono S4 Halfcut Transparency Project“ product line, which we would be happy to send to you. Due to the tolerance of the anti-reflective coating, color differences in the solar modules are possible.

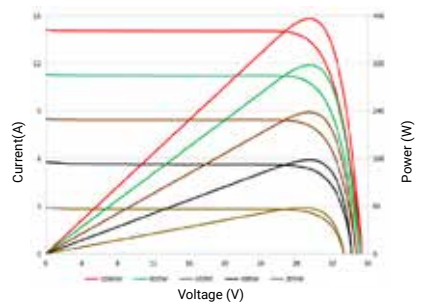
Logistic

Weight pallet	ca. 1164 kg
Modules per pallet	36
Modules per Container [40' HC]	720

Module performance



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



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