



Creating a Powerful Future

33 %  
Transparency

# Mono S4 Halfcut | Transparency Project

290 W / 295 W

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

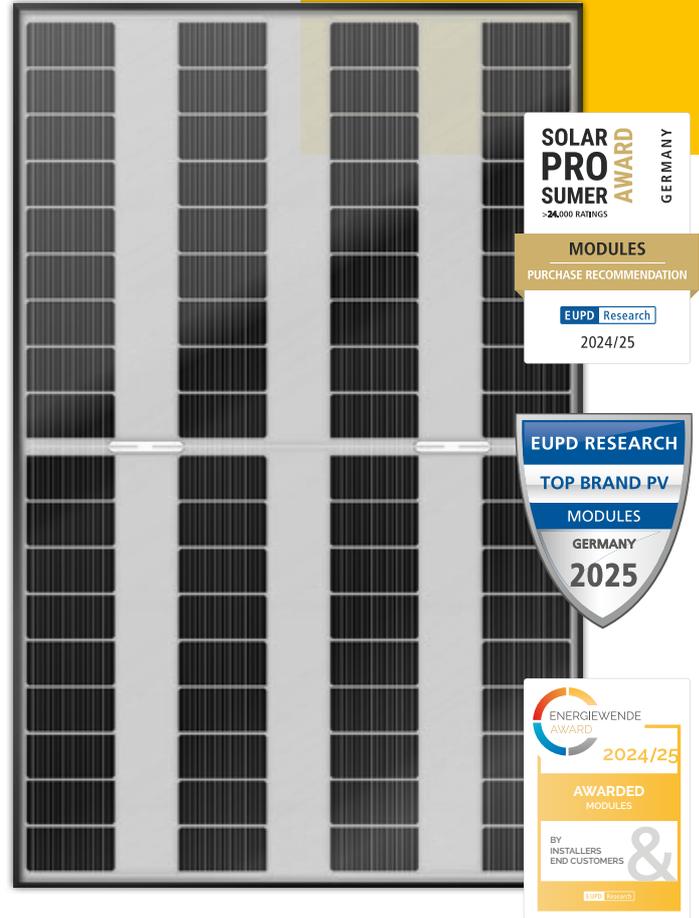
Especially suitable for:



Solar Parks/Agri-PV



Commercial



**German warranty**  
15-year guarantee on the product and 30 years on the module performance



**Hail protection class 3**  
Resistant to ice balls with a maximum diameter of 25 mm and a speed of 23.0 m/s



**Fire protection glass A**  
Best possible fire protection certification for solar modules with German TÜV certificate



**Area utilisation factor**  
151 W/m<sup>2</sup> at 295 W. Top comparability thanks to wattage per square metre



**Transparent**  
Highly transparent, self-cleaning glass



**Bifacial cell**  
Transparent cell with additional energy on the back of the cell



**N-type-technology**  
TopCon solar module with N-type technology for top 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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290 W / 295 W

## Elektrische Daten unter STC

(Standard Test Conditions: 1000 W/m<sup>2</sup>, 25 °C, AM 1,5, Messtoleranz: ± 3%)

Rated power	$P_{max}$	290 W	295 W
Sorting limits of performance		0/+5 W	0/+5 W
Voltage	$U_{MPP}$	22.04 V	22.27 V
Open circuit voltage	$U_{OC}$	26.31 V	26.53 V
Current	$I_{MPP}$	13.16 A	13.25 A
Short-circuit current	$I_{SC}$	13.91 A	13.98 A
Efficiency		14.85 %	15.11 %

## Temperature data

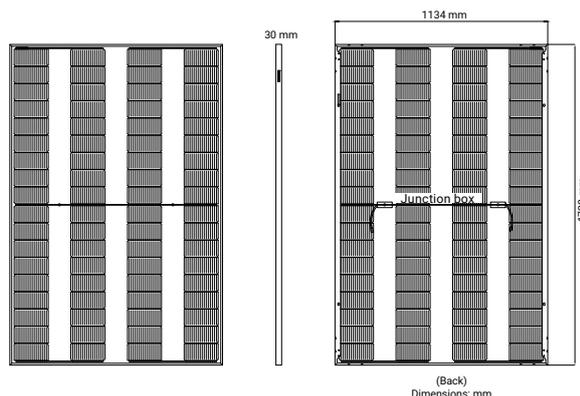
Operating temperature		- 40° C ~ + 85° C
Nominal operating cell temperature		42° C ± 2° C
Power temperature coefficient	$T_K (P_{MPP})$	- 0.290 %/°C
Voltage temperature coefficient	$T_K (U_{OC})$	- 0.250 %/°C
Current temperature coefficient	$T_K (I_{SC})$	0.048 %/°C

## Further information

Number of cells	72 bifacial monocrystalline half cells (4 x 18)
Module dimensions	1722 x 1134 x 30 mm
Type of Frame	Anodized aluminium alloy (Silver/Black)
Max. system voltage	1500 V
Reverse current loading capability	30 A
Glass thickness	Front: 2 mm, tempered glass with an anti-reflective coating Back: 2 mm, tempered glass
Weight	approx. 23,4 kg
Module connection	MC4 Compatible or similar, 4.0 mm <sup>2</sup> , cable length: (+) ≥ 300 mm, (-) ≥ 300 mm (or upon request)
Junction box rating	IP68
Allowable Hail Load	Hailstones with a maximum diameter of 25 mm and a speed of up to 23.0 m/s
Snow load	5400 Pa ± 550 kg/m <sup>2</sup>
Fire class	Class A according to IEC standard 61730-2 (UL 790, UL 1703)

15-years product warranty, 30-years 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.

### S4-DGXXX-72APV (half cell module)

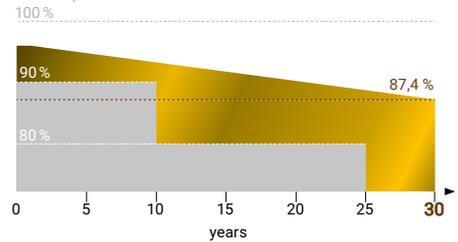


Note:  
Ensure correct polarity!  
Tolerance range in accordance with current warranty conditions.

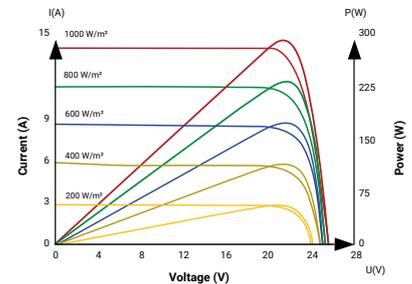
## Logistic

Weight pallet	ca. 901 kg
Modules per pallet	36
Modules per Container [40' HC]	936

## Module performance



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



Your specialist dealer:

**Solar Fabrik GmbH**  
Hermann-Niggemann-Str. 7-9  
63846 Laufach  
Germany

+49 (0)6093 20770-0  
info@solar-fabrik.de  
www.solar-fabrik.de