



Creating a Powerful Future

## Mono S5 Halfcut | Installer Series 300 W / 305 W

The Solar Fabrik Mono S5 Installer Series Module with a max. system voltage of 1500V is a double glass module with bifacial monocrystalline half-cell technology.

- + Half cell modules – High reliability & long life
- + Highly transparent self-cleaning glass
- + Bifacial cells – up to 30% higher energy yield
- + N-Type cell technology
- + Resistant to environmental influences:  
Passed salt mist & ammonia test
- + Multibusbar-technology
- + Area utilization 208.79 W/m<sup>2</sup> at 305 W
- + German warranty

**TIER 1**  
BloombergNEF  
Q2/2023

The Mono S5 Installer Series module features N-Type cell technology. The wafers of the N-Type module are positively charged on the bottom side and negatively charged on the top side. This gives the module a lower temperature coefficient and therefore higher yields. By separating the cells into two equal parts (half-cut technology), the module achieves a higher output than a full-cell module. The current flow in the cell is halved and the power loss is thus reduced.

Bifacial cells achieve up to 30% higher energy yields.

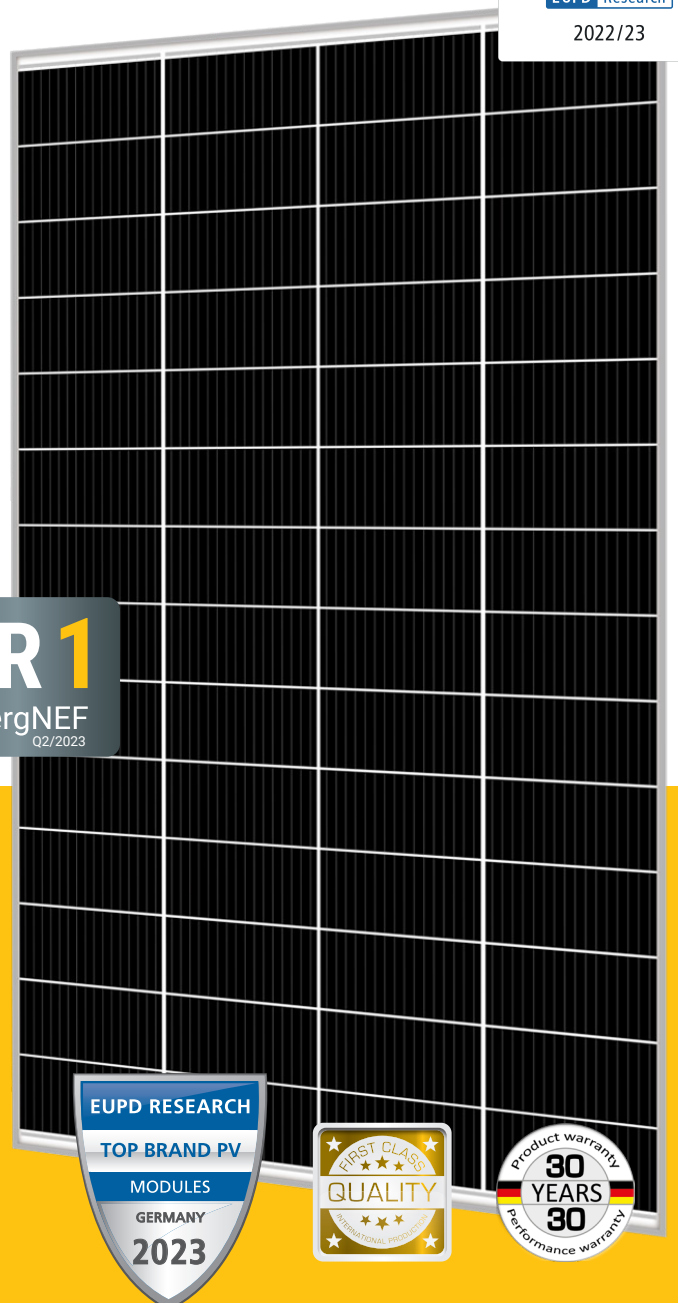
The multibusbar technology enables even higher performance, higher reliability and higher (electrical) stress capacity of the modules.

**SOLAR PRO SUMER AWARD**  
GERMANY  
-22,000 RATINGS

MODULES  
PURCHASE RECOMMENDATION

EUPD Research

2022/23



## Mono S5 Halfcut | Installer Series

### 300 W / 305 W



### Electrical data under STC (Standard Test Conditions: 1000 W/m<sup>2</sup>, 25 °C, AM 1.5)

Rated power	$P_{max}$	300 W	305 W
Sorting limits of performance		0/+3 %	0/+3 %
Voltage	$U_{MPP}$	25.51 V	25.87 V
Open circuit voltage	$U_{OC}$	30.47 V	30.63 V
Current	$I_{MPP}$	11.76 A	11.79 A
Short-circuit current	$I_{SC}$	12.47 A	12.58 A
Efficiency		20.91 %	21.26 %

### Temperature data

Operating temperature		- 40° C ~ + 85° C
Nominal operating cell temperature		45° C ± 2° C
Power temperature coefficient	$T_K (P_{MPP})$	- 0.300 %/°C
Voltage temperature coefficient	$T_K (U_{OC})$	- 0.250 %/°C
Current temperature coefficient	$T_K (I_{SC})$	0.046 %/°C

### Further information

Number of cells	56 N-type bifacial monocrystalline half cells (4 x 14)
Module dimensions	1660 x 880 x 30 mm
Type of Frame	Anodized aluminium alloy
Max. system voltage	1500 V
Reverse current loading capability	25 A
Glass thickness	Frontside/Backside: 2.0 mm/2.0 mm
Weight	approx. 18 kg
Module connection	MC4 or similar, 4.0 mm <sup>2</sup> , cable length: (+) ≥ 1200 mm, (-) ≥ 1200 mm
Junction box rating	IP68
Allowable Hail Load	25 mm iceball with velocity of 23 m/s
Snow load	5400 Pa $\hat{=}$ 550 kg/m <sup>2</sup>



30-year product warranty, 30-year linear performance warranty according to our additional warranty conditions for solar power modules of the "Mono S5" 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.

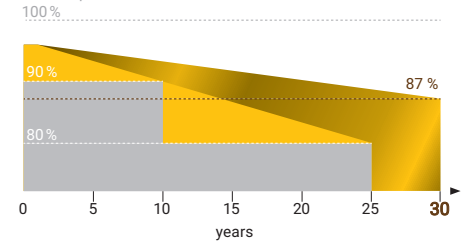
Subject to technical modifications with corresponding follow-up certifications. Errors excepted. Illustration similar.

### Logistic

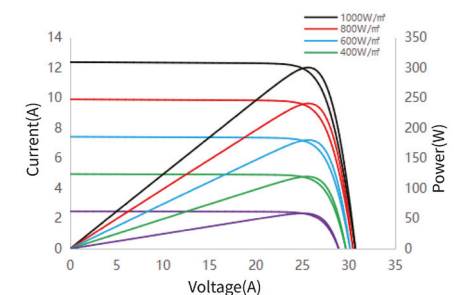
Dimension pallet (L/W/H)	175/120/120 cm
Weight pallet	approx. 680 kg
Modules per pallet	36
Modules per truck	1008
Modules per container [40' HC]	1008



### Module performance



- Linear performance warranty for FIRST CLASS Quality Solar Modules
- Linear performance warranty
- 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

### Mono S5 Installer Series (half cell module)

Note:  
Ensure correct polarity!