

Mono S4 Halfcut | Black-White

405 W / 410 W / 415 W

Our standard module for low-cost entry and ideal for all types of applications in the residential and commercial sectors. The black and white appearance gives the module a classic and industrial character. Glass-foil module with monocrystalline P-type/PERC half cells.

Especially suitable for:



Residential



Commercial



Half-cell module

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



Black-White

Solar module with white backsheet



Self-cleaning

Highly transparent, self-cleaning glass



Resistant to environmental influence

Resistant to ammonia & salt spray



German warranty

15-year guarantee on the product and 25 years on the module performance



P-Type technology

PERC solar module with P-Type technology for a top price/performance ratio



Area utilisation

213 W/m² at 415 W. Top comparability thanks to wattage per square metre



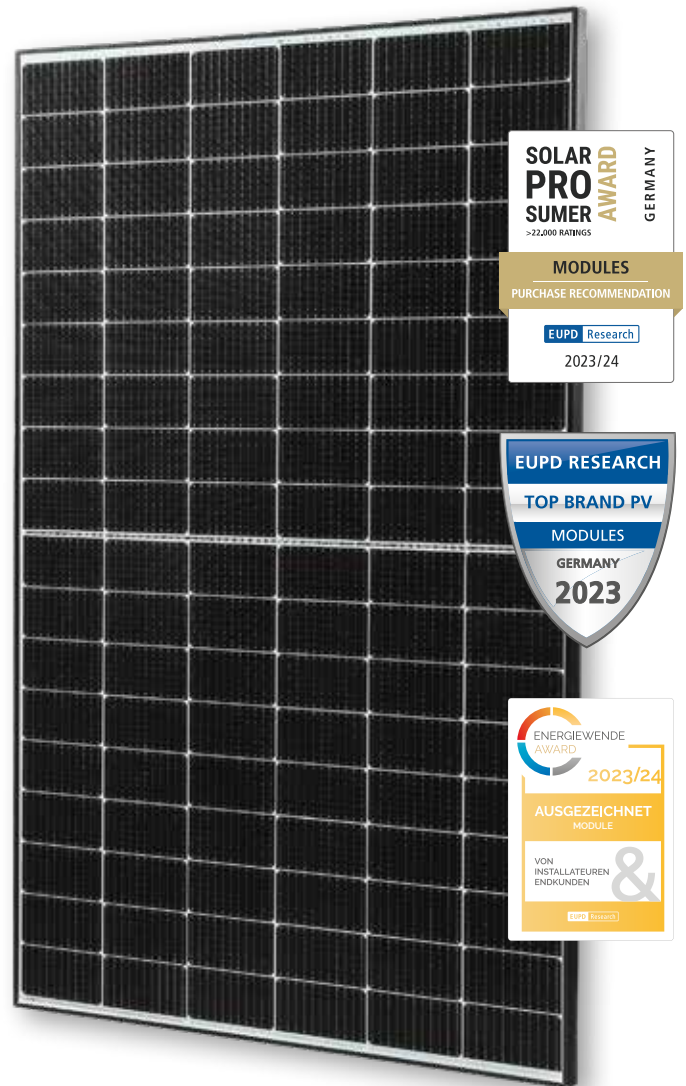
Multibusbar technology

Higher performance, greater reliability and higher (electrical) load capacity



Low-light behaviour

Outstanding performance even under low light conditions



Mono S4 Halfcut | Black-White

405 W / 410 W / 415 W

Electrical data under STC (Standard Test Conditions: 1000 W/m², 25 °C, AM 1.5)

| Parameter | Symbol | 405 W | 410 W | 415 W |
|-------------------------------|-----------|---------|---------|---------|
| Rated power | P_{max} | 405 W | 410 W | 415 W |
| Sorting limits of performance | | 0/+3 % | 0/+3 % | 0/+3 % |
| Voltage | U_{MPP} | 30.91 V | 31.09 V | 31.27 V |
| Open circuit voltage | U_{OC} | 37.21 V | 37.33 V | 37.45 V |
| Current | I_{MPP} | 13.11 A | 13.20 A | 13.29 A |
| Short-circuit current | I_{SC} | 13.98 A | 14.06 A | 14.13 A |
| Efficiency | | 20.91 % | 21.17 % | 21.43 % |

Temperature data

| | | |
|------------------------------------|----------------|-------------------|
| Operating temperature | | - 40° C ~ + 85° C |
| Nominal operating cell temperature | | 42° C ± 3° C |
| Power temperature coefficient | $T_K(P_{MPP})$ | - 0.330 %/°C |
| Voltage temperature coefficient | $T_K(U_{OC})$ | - 0.246 %/°C |
| Current temperature coefficient | $T_K(I_{SC})$ | 0.0448 %/°C |

Further information

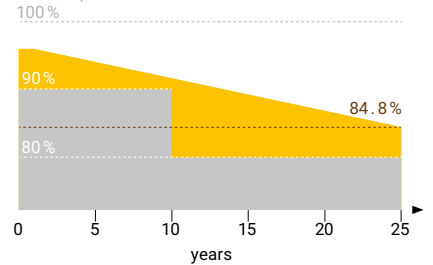
| | |
|------------------------------------|--|
| Number of cells | 108 monocrystalline half cells (6 x 18) |
| Cell size | 182 x 91 mm |
| Module dimensions | 1722 x 1134 x 30 mm |
| Type of Frame | black anodized aluminium alloy |
| Max. system voltage | 1500 V |
| Reverse current loading capability | 25 A |
| Glass thickness | 3.2 mm |
| Weight | approx. 21.2 kg |
| Module connection | MC4 or similar, 4.0 mm ² , 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 ≙ 550 kg/m ² |

15-year product warranty, 25-year linear performance warranty according to our additional warranty conditions for solar power modules of the "Mono S4 Halfcut Black-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. Subject to technical modifications with corresponding follow-up certifications. Errors excepted. Illustration similar.

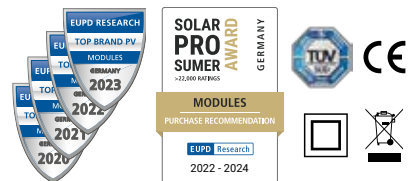
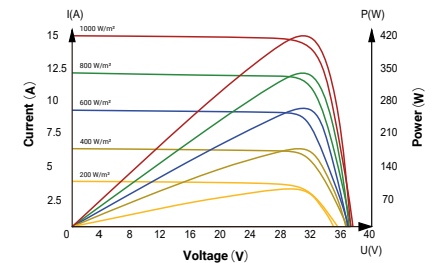
Logistic

| | |
|--------------------------------|----------------|
| Dimension pallet (L/W/H) | 177/114/125 cm |
| Weight pallet | approx. 793 kg |
| Modules per pallet | 36 |
| Modules per truck | 1008 |
| Modules per Container [40' HC] | 936 |

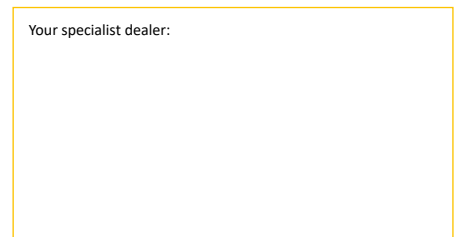
Module performance



- Linear performance warranty
- Standard tiered warranty



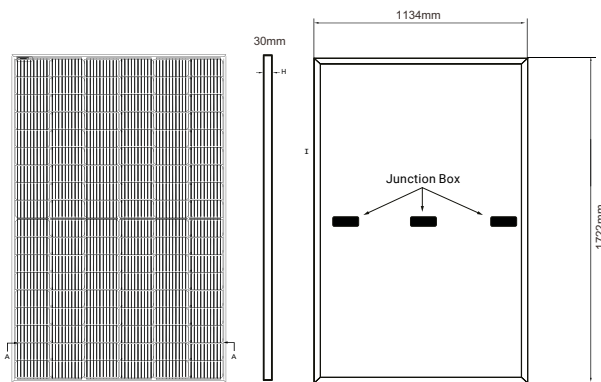
Your specialist dealer:



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 S4 HC V XXX (half cell module)



Note:
Ensure correct polarity!

(Backside)
Note: mm