

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.

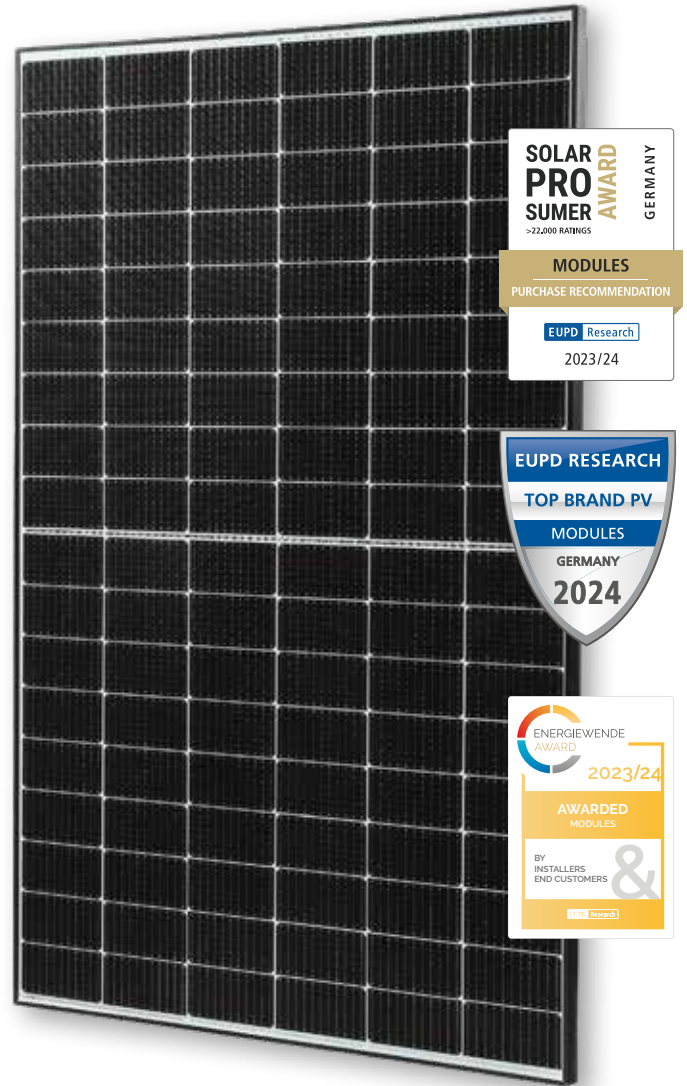
Especially suitable for:



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

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405 W / 410 W / 415 W

Electrical data under STC

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

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

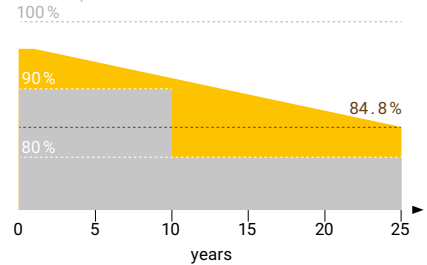
Number of cells	108 monocrystalline half cells (6 x 18)
Cell size	182 x 91 mm
Module dimensions	1722 x 1134 x 30 mm
Type of Frame	black anodized aluminium alloy
Max. system voltage	1500 V
Reverse current loading capability	25 A
Glass thickness	3.2 mm
Weight	approx. 21.2 kg
Module connection	MC4 or similar,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

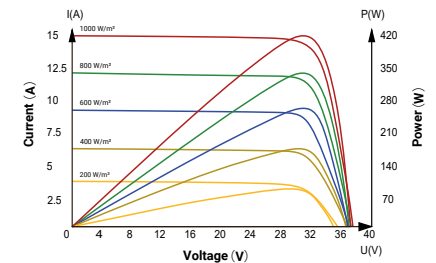
Logistic

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

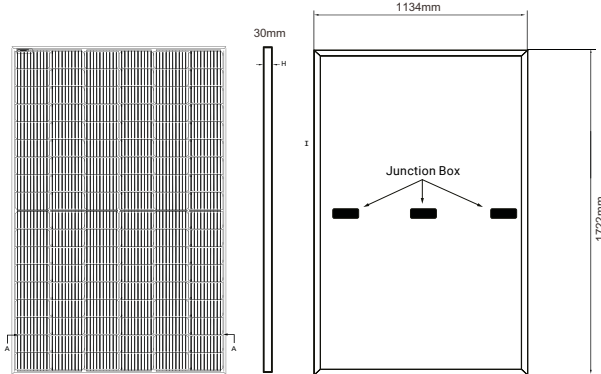
Module performance



- Linear performance warranty
- Standard tiered warranty



Mono S4 HC V XXX (half cell module)



Note:
Ensure correct polarity!
Data with tolerance ± 1 mm

(Backside)
Note: mm

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