

# 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.

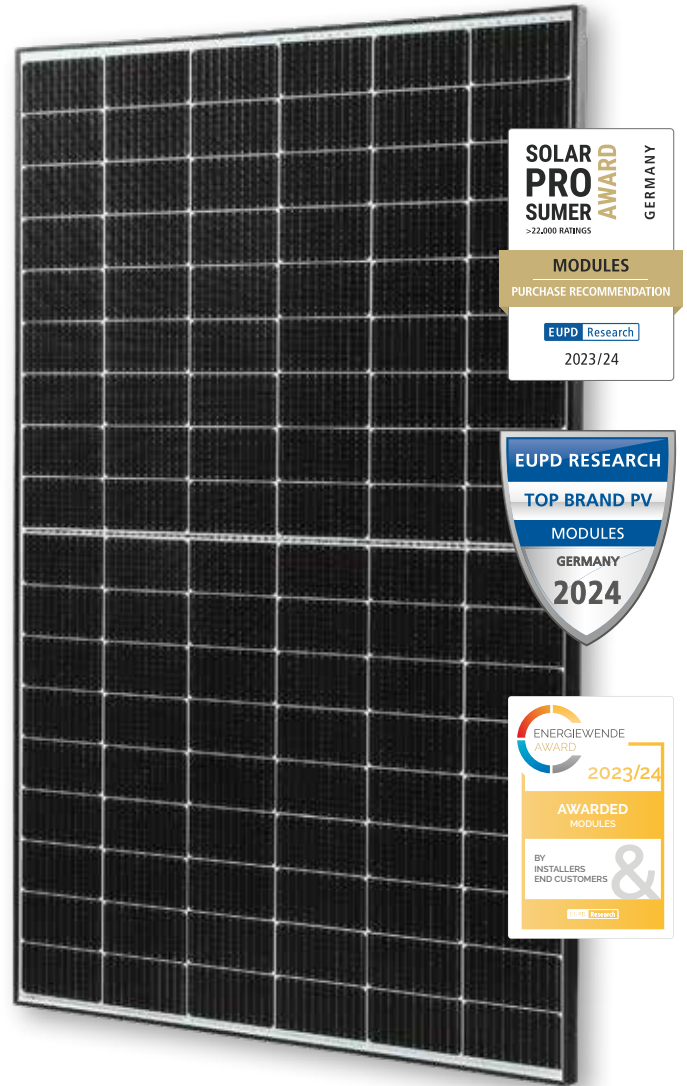
Especially suitable for:



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

Rated power	P <sub>max</sub>	405 W	410 W	415 W
Sorting limits of performance		0/+3 %	0/+3 %	0/+3 %
Voltage	U <sub>MPP</sub>	30.91 V	31.09 V	31.27 V
Open circuit voltage	U <sub>OC</sub>	37.21 V	37.33 V	37.45 V
Current	I <sub>MPP</sub>	13.11 A	13.20 A	13.29 A
Short-circuit current	I <sub>SC</sub>	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 <sub>K</sub> (P <sub>MPP</sub> )	- 0.330 %/°C
Voltage temperature coefficient	T <sub>K</sub> (U <sub>OC</sub> )	- 0.246 %/°C
Current temperature coefficient	T <sub>K</sub> (I <sub>SC</sub> )	0.0448 %/°C

## Further information

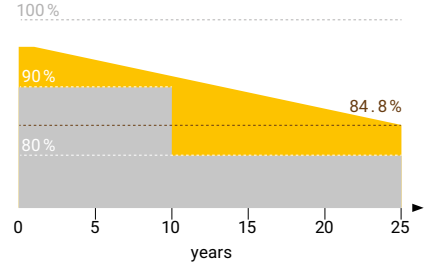
Number of cells	108 monocrystalline half cells (6 x 18)
Cell size	182 x 91 mm
Module dimensions	1722 x 1134 x 30 mm
Type of Frame	black anodized aluminium alloy
Max. system voltage	1500 V
Reverse current loading capability	25 A
Glass thickness	3.2 mm
Weight	approx. 21.2 kg
Module connection	MC4 or similar,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

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.

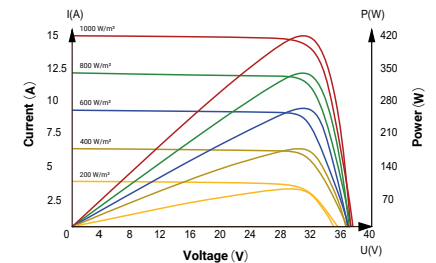
## Logistic

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



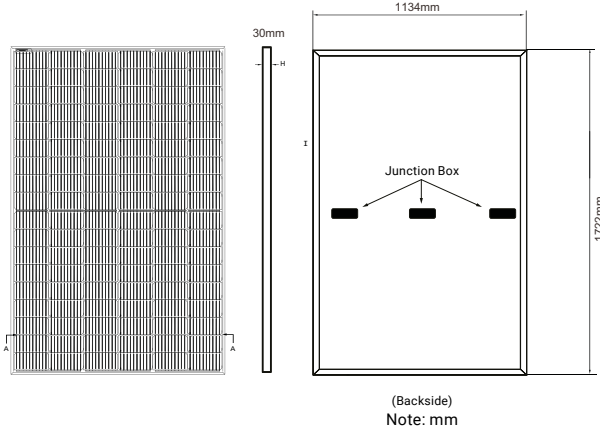
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MD1000240423

### Mono S4 HC V XXX (half cell module)



Note:  
Ensure correct polarity!