

Mono S4 Halfcut | Trend Black

445 W / 450 W

Bifacial double glass module in a black design with a transparent back and N-TYPE/TOPCon cell technology. The power module for the residential and commercial sector makes optimum use of the classic module size.

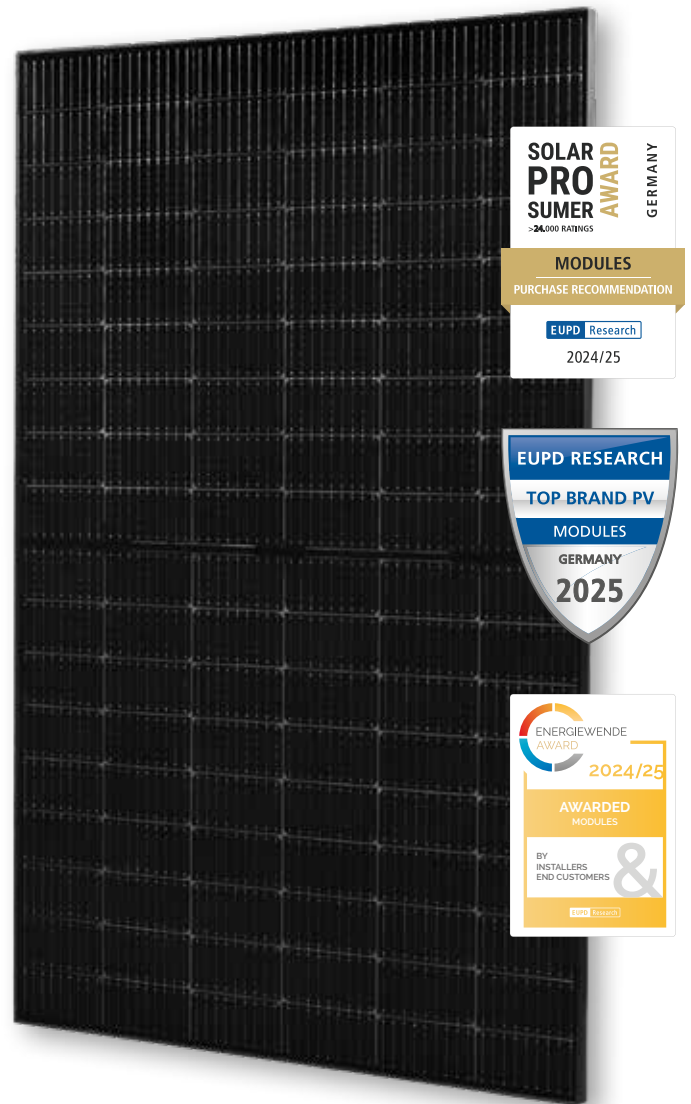
Especially suitable for:



Residential



Commercial



German warranty

30-year guarantee on the product and 30 years on the module performance



Hail protection class 4

Resistant to ice balls with a maximum diameter of 40 mm and a speed of 29.2 m/s



Fire protection glass A

Best possible fire protection certification for solar modules with German TÜV certificate



Area utilisation factor

223 W/m² at 445 W. Better comparability through watt output per square metre



Transparent

Transparent double glass solar module



Bifacial cell

Transparent cell with additional energy on the back of the cell



N-type technology

TopCon solar module with N-Type technology for even more peak 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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Electrical data under STC

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

Rated power	P_{max}	445 W	450 W
Sorting limits of performance		0/+5 W	0/+5 W
Voltage	U_{MPP}	33.71 V	33.91 V
Open circuit voltage	U_{OC}	40.05 V	40.25 V
Current	I_{MPP}	13.20 A	13.27 A
Short-circuit current	I_{SC}	14.10 A	14.17 A
Efficiency		22.30 %	22.50 %

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

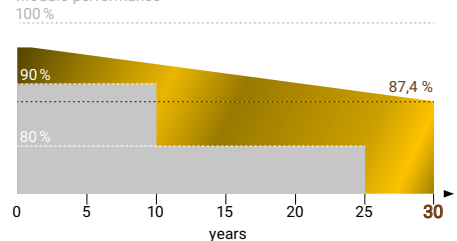
Number of cells	108 N-Type bifacial monocrystalline half cells (6 x 18)
Module dimensions	1762 x 1134 x 30 mm
Type of Frame	black anodized aluminium alloy
Max. system voltage	1500 V
Reverse current loading capability	30 A
Glass thickness	Frontside/Backside: 2.0 mm/2.0 mm
Weight	approx. 24.9 kg
Module connection	MC4 or similar, 4.0 mm ² , cable length: (+) ≥ 1100 mm, (-) ≥ 1100 mm
Junction box rating	IP68
Allowable Hail Load	40 mm iceball with velocity of 29.2 m/s
Snow load	5400 Pa ± 550 kg/m ²
Fire class	A according to IEC standard 61730-2 (UL 790, UL 1703)

30 years product warranty, 30 years linear performance warranty according to our additional warranty conditions for solar power modules of the "Mono S4 Halfcut Trend Black" 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

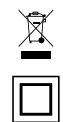
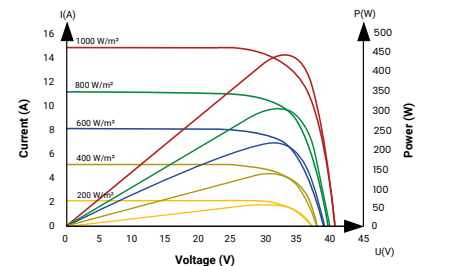
Dimension pallet (L/W/H)	180/114/125 cm
Weight pallet	ca. 926 kg
Modules per pallet	36
Modules per Container [40' HC]	936

Module performance



Linear performance warranty for Double-Glass Solar Modules

Standard tiered warranty



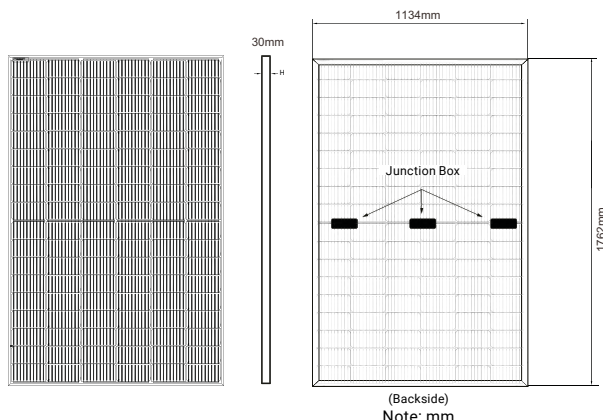
Your specialist dealer:

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Valid as of: 15.07.2025
MD1009250715B

S4-DGXXX-108T (half cell module)



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

Errors and technical changes are subject to change, with possible re-certifications. Illustration similar.