Creating a Powerful Future

Mono S4 Halfcut | BC Black

475 W / 480 W / 485 W

Bifacial double-glass module with transparent backsheet featuring BC technology. The high-efficiency module for residential applications.

Especially suitable for:

Residential

German warranty
30-years 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
238 W/m² at 485 W. Better comparability through watt output per square metre

Transparent
Transparent double glass solar module

Bifacial cell
Transparent cell with additional energy generation on the cell's backside

BC-technology
Back contact technology for higher light capture on the front side

N-type technology
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

Anti-shading technology
Excellent performance even under partial shading, bypass diode at cell level

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}	475 W	480 W	485 W
Sorting limits of performance		0/+5 W	0/+5 W	0/+5 W
Voltage	U_{MPP}	33.40 V	33.51 V	33.62 V
Open circuit voltage	U_{OC}	40.42 V	40.53 V	40.64 V
Current	I_{MPP}	14.23 A	14.33 A	14.43 A
Short-circuit current	I_{SC}	14.88 A	14.98 A	15.08 A
Efficiency		23.30 %	23.50 %	23.80 %

Temperature data

Operating temperature		– 40° C ~ + 85° C
Nominal operating cell temperature		45° C ± 2° C
Power temperature coefficient	$T_K (P_{MPP})$	– 0.260 %/°C
Voltage temperature coefficient	$T_K (U_{OC})$	– 0.200 %/°C
Current temperature coefficient	$T_K (I_{SC})$	0.050 %/°C

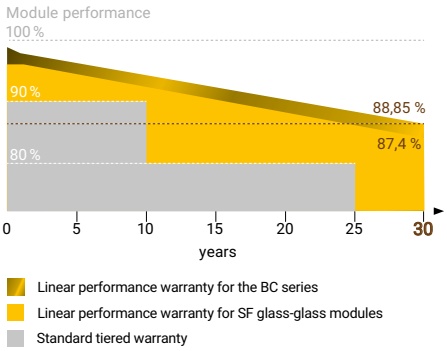
Further information

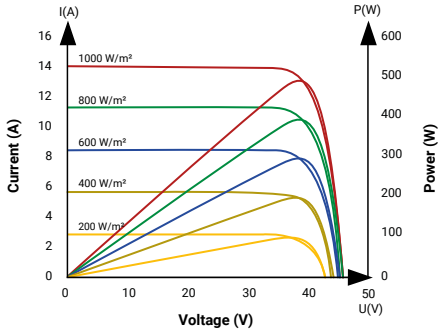
Number of cells	108 N-Type bifacial monocrystalline half cells (6 x 18)
Module dimensions	1800 x 1134 x 30 mm
Type of Frame	black anodized aluminium alloy
Max. system voltage	1500 V
Reverse current loading capability	30 A
Glass thickness	Frontside/Backside: 2.0 mm/2.0 mm
Weight	approx. 25.0 kg
Module connection	MC4 Stäubli EVO 2, 4,0 mm² Cable length: (+) ≥ 1200 mm, (–) ≥ 1200 mm
Junction box rating	IP68
Allowable Hail Load	40 mm iceball with velocity of 29.2 m/s
Snow load	5400 Pa ≙ 550 kg/m²
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 BC 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.

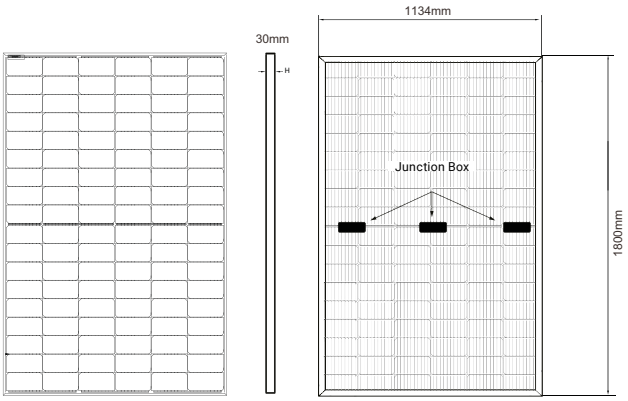
Logistic

Dimension pallet (L/W/H)	182/111/125 cm
Weight pallet	approx. 930 kg
Modules per pallet	36
Modules per Container [40' HC]	864





S4-DGXXX-108BC-B
(half cell module)



Note: mm

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

Errors and technical modifications are subject to change, with possible re-certifications. Image may differ.

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