

Mono S4 Halfcut | Trend Guard

455 W

Bifacial double-glass module with transparent intercell spaces and N-TYPE/TOPCon cell technology. Thanks to its DIBt certification, it is ideally suited for applications with heightened safety requirements, such as carports or building facades.

Especially suitable for:



Residential



Commercial



German warranty

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



Overhead approval

DIBt-tested: For overhead and facade installations



Vertical installation

For demanding facade projects with certified safety



Area utilisation factor

228 W/m² at 455 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}	455 W
Sorting limits of performance		0/+5 W
Voltage	U_{MPP}	30.42 V
Open circuit voltage	U_{OC}	36.09 V
Current	I_{MPP}	14.96 A
Short-circuit current	I_{SC}	15.66 A
Efficiency		22.77 %

Temperature data

Operating temperature		- 45° 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	$T_K (I_{SC})$	0.040 %/°C

Further information

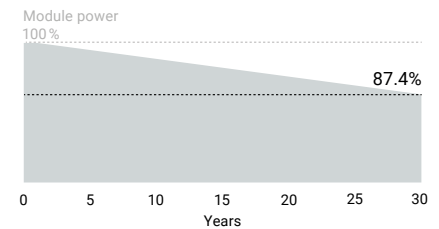
Number of cells	96 N-Type bifacial monocrystalline half cells (6 x 16)
Module dimensions	1762 x 1134 x 30 mm
Type of Frame	Black anodized aluminium alloy
Max. system voltage	1500 V
Reverse current loading capability	30 A
Glass thickness	Frontside/Backside: 2.0 mm/2.0 mm
Weight	approx. 24.5 kg
Module connection	MC4 Stäubli EVO 2A, 4.0 mm ² , cable length: (±) ≥ 1100 mm, (±) ≥ 1100 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
Fire class	E according to DIN EN 13501-1

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 Guard" 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.

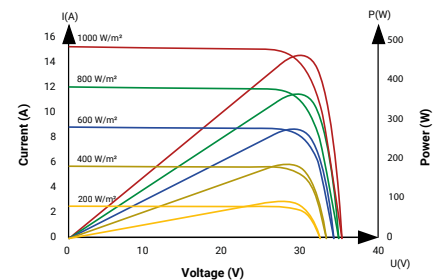
Logistic

Dimension pallet (L/W/H)	180/114/125 cm
Weight pallet	approx. 912 kg
Modules per pallet	36
Modules per Container [40' HC]	936

Linear performance warranty



Current-voltage curve



Your specialist dealer:

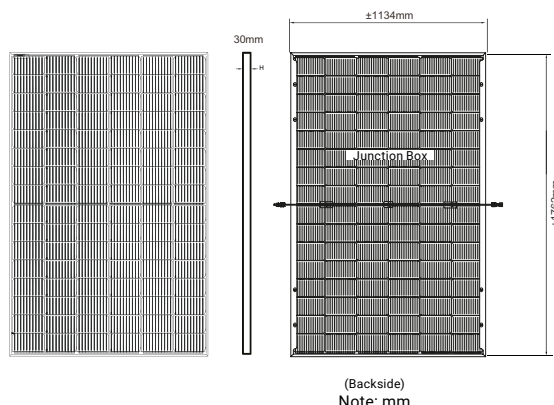
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Valid as of: 22.06.2026
MD1000260622

S4-DGXXX-96TMax (half cell module)



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