

M7 Ultra Black Double Glass Bifacial 410W | 210^W / M²



Ultra black solar cell technology

Eliminates the color difference on the solar panels and increases the effectiveness of the panels by up to 5%



DLAR glass coating technology

Boosts solar glass transmission and therefore increases panel efficiency by up to 5%



Bifacial technology

Uses reflected light to increase energy generation by an additional 10-30%



Fire safety class A

The Belinus panels on your roof meet the highest safety standards and is a fire-resistant



Bloomberg TIER 1 production

Both the Belinus solar cells and solar modules are produced by certified suppliers in the 2023 Bloomberg TIER 1 list



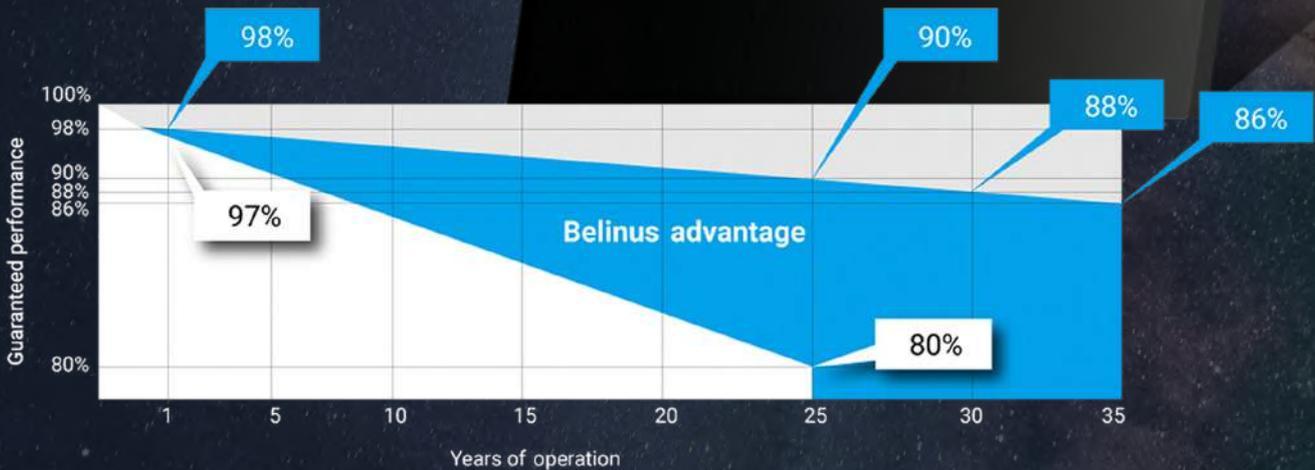
European quality

Each Belinus panel is made by certified materials. The panels go through 3 checks to assure European quality



Hail resistance

Resistance to hail storms helps ensure durability of our modules.



35_{yr}
Product warranty

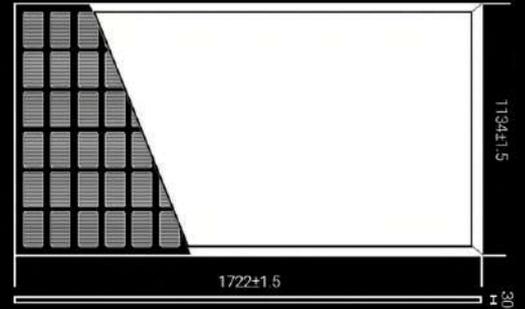
35_{yr}
Performance warranty

35_{yr}
Service warranty

"The most comprehensive warranty in the entire solar industry."

MECHANICAL CHARACTERISTICS

Dimension	1722 × 1134 × 30mm ± 1.5 mm
Weight	23 kg
Frame	Anodized aluminium alloy
Cell encapsulation	POE
Front and rear glass	2.0 mm x 2 pcs, DLAR glass coating technology
Back sheet	Normal tempered glass
Cells	6x18 pieces, 182x91mm
Junction box	IP68 rated
Output cables	4.0 mm ² , 1200mm
Connection technology	Stäubli electrical MC4-connectors



ELECTRICAL CHARACTERISTICS

	Front
Peak power (Pmax) (W)	410
MPP voltage (Vmp) (V)	31.6V
MPP current (Imp) (A)	13.0A
Open circuit voltage (Voc) (V)	37.5V
Short circuit current (Isc) (A)	13.9A
Module efficiency (%)	21.0%
Operating module temperature	-40 °C to +85 °C
Maximum system voltage	DC1500V
Maximum series fuse	20A
Power tolerance	0 to + 5 W

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within +/- 5%

TEMPERATURE CHARACTERISTICS

Rated cell operating temperature	45±2°C	Temperature coefficient (Pmax)	+0.04%/°C
Temperature coefficient (Isc)	-0.31%/°C	Temperature coefficient (Voc)	-0.27%/°C

QUALIFICATIONS AND CERTIFICATES



PACKAGING INFORMATION

Container	40'HC
Pieces per pallet	36
Pallets per container	26
Pieces per container	936

Certificates available upon special requests. Additional charges may apply. Both the Belinus solar cells and solar modules are made by suppliers in the Bloomberg TIER 1 List. Lloyd's reinsurance terminates the 15-year warranty on product defects of the first-line TIER 1 supplier and the 30-year warranty on the power output. Belinus self-warrants the rest of the warranties.



Belinus all-in-one warranty	VS	Conventional solar panel warranty
35 years	Service warranty	✗
✓	Shipping - new parts	✗
✓	Shipping - old parts	✗
✓	Installation	✗
35 years	Product warranty	12 years
	Power warranty	
98%	Start point	97%
0.34%	Yearly decline	0.7%
88%	End point (30 years)	80%
86%	End point (35 years)	✗

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belinus

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