

HYPERION Glass-Glass | mono-PERC technology

410 Wp - 210 W/m²

Solid and black



Bifacial module

Bifacial modules not only generate electricity from sunlight on their front sides but also from reflected light on their rear sides, increasing overall energy yield.



Ultra black

The black cells, black frame, black spacings and matt finish make this panel a true aesthetic enhancement for your roof. Only the darkest cells are selected to use in our panels.



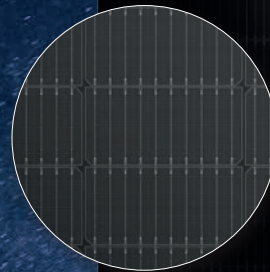
Glass-Glass

Glass at the front and at the rear for a longer longevity, lower degradation and less chance of micro-cracks. They are also more weather-, water- and fire-resistant and contain no PFAS.

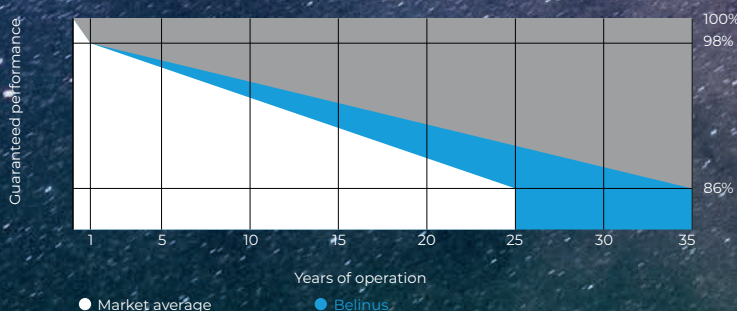


Belgian quality

Designed and engineered in the heart of Europe using only parts that meet the highest European requirements for quality and safety.



Degradation

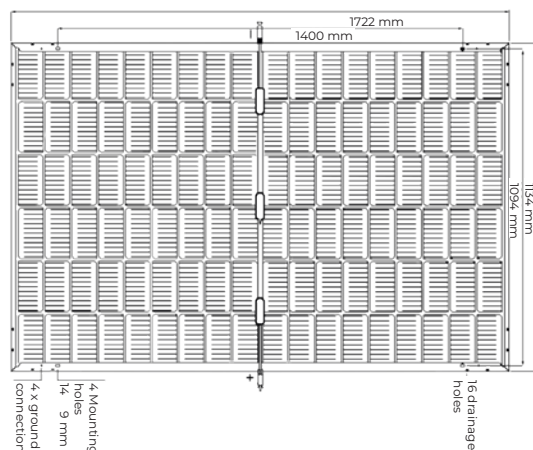


For more information visit www.belinus.com/warranty

Mechanical characteristics

Dimensions	1722 x 1134 x 30 mm ±1.5mm (1.95m ²)
Weight	23 kg
Cell technology	mono-PERC
N° of cells	108 half-cut
Cell size	182 x 182 mm
Bifaciality factor	70% (±5%)
Front cover	2.0 mm tempered solar glass with DLAR coating
Back cover	2.0 mm tempered solar glass
Spacings transparency	Not transparent with black tape
Frame	Black anodized aluminium alloy
Junction boxes	IP68
Output cables	4 mm ² 1200 mm
Connectors	Stäubli MC4 Evo-2

Technical characteristics



Electrical characteristics¹

Power (P _{max}) ²	400 Wp	405 Wp	410 Wp	
Module power density	205 W/m ²	207 W/m ²	210 W/m ²	
Module efficiency %	20.5 %	20.7 %	21.0 %	
Voltage at max. power [V _{mpp}]	31.1 V	31.4 V	31.6 V	
Current at max. power [I _{mpp}]	12.9 A	12.9 A	13.0 A	
Open circuit voltage [V _{oc}]	37.1 V	37.3 V	37.5 V	
Short circuit current [I _{sc}]	13.8 A	13.8 A	13.9 A	
Bifaciality performance	10% (P _{mpp})	428.0 Wp	433.4 Wp	438.7 Wp
increase	20% (P _{mpp})	456.0 Wp	461.7 Wp	467.4 Wp
	30% (P _{mpp})	484.0 Wp	490.1 Wp	496.1 Wp

¹Measured under standard test conditions (STC): 1000 W/m² irradiance, 25°C cell temperature, AM=1.5 and rear side covered for monofacial measurement.

²Power class sorting tolerance: 0 to +5W.

Specifications for system design

Maximum system voltage	1500 V
Maximum reverse current	20 A
Max. test load snow/wind	5400 Pa/-2400 Pa
Impact resistance	Ø 45 mm hail at 23 m/s
Safety class	II
Fire class	Class A according to UL790
Operating temperature	-40 to 85°C

Warranty	Belinus	Market Average
Product	35 years	12-15 years
Performance	35 years	25 years
Service	35 years	0 years

Temperature characteristics

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C	Temperature coefficient of V _{oc}	-0.27%/C°
Temperature coefficient of P _{max}	-0.31%/C°	Temperature coefficient of I _{sc}	+0.04%/C°

Packaging information

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

Certificates and tests

IEC 61215, IEC 61730



Residential



Commercial



Industrial

Product reference: BE-M7-UB-GG-xxx/BE54-18X-CG-xxx

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