

GlasGlas Bifacial Knight IBC Module



Bifacial IBC Technology

Cutting edge IBC Technology for ultra high efficiency

90% Bifaciality for up to 10% additional power (419W!)



N-Type Technology

Zero PID and LID



Zero Busbar Technology

Elegant looks and status



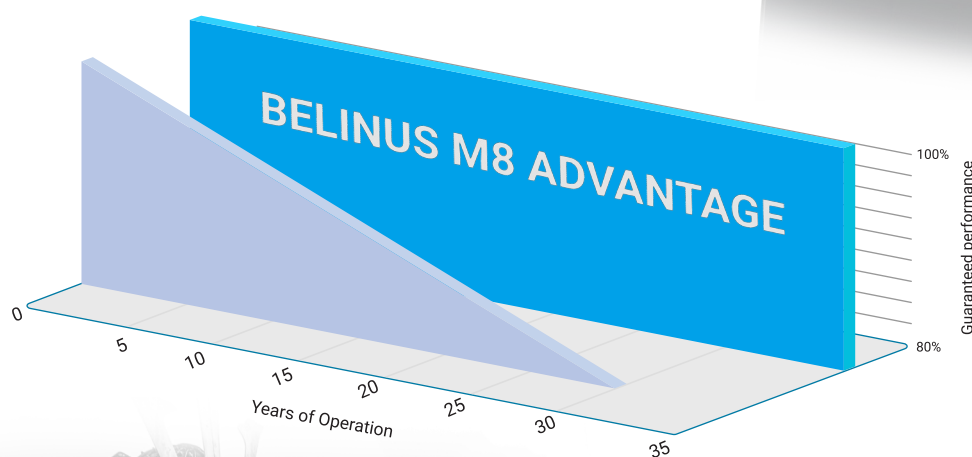
Very Low Temperature Coefficient

VOC: -0.244 % / °C, much lower than PERC or N-TopCon modules



European Quality

Made of European components, including Staubli MC4 connectors



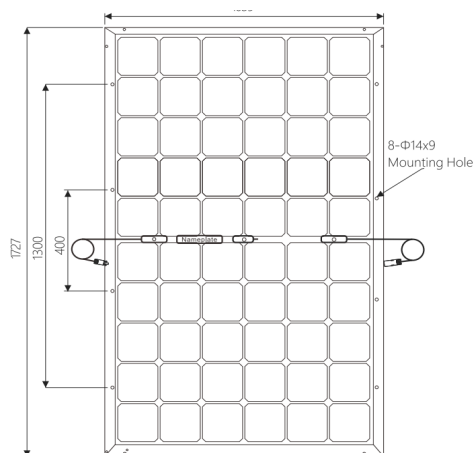
390 W
217 W/m²

LLOYD'S

Underwriters



Technical Characteristics



Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44°C (±2°C)
Temperature Coefficient of Pmax	-0.288 %/°C
Temperature Coefficient of Voc	-0.244 %/°C
Temperature Coefficient of Isc	+0.044 %/°C

Packaging Information

Container	40'HC
Pieces per pallet	35
Pallets per container	26
Pieces per container	910

Mechanical Characteristics

Laminate Structure	Glass/ POE/ Cells/ POE/ Glass
Cell Type	N - Type IBC 166 x 83 mm
Cell Connection	132 (6x22)
Module Dimensions	1727 x 1039 x 30 mm
Weight	23.5kg
Junction Box	Degree of protection IP68
Output Cable	4mm ² , 1400mm with MC4
Connectors Type	Stäubli MC4
Frame	Anodised Aluminum Alloy
Encapsulant	POE
Front Load	5400 Pa
Real Load	2400 Pa
Glass Thickness	2.0mm DLAR (dual layer glass coating technology) solar glass x 2

Electrical Characteristics

Maximum Power (Pmax)	390W (10% back gain)	419W
Max Module Efficiency(%)	21.7%	23.4%
Voltage at Max Power (Vmp)	35.7V	
Current at Max Power (Imp)	10.9A	
Open Circuit Voltage (Voc)	41.9V	
Short Circuit Voltage (Isc)	11.8A	
Operating Module Temperature	-40 to +85°C	
Maximum System Voltage	DC1500V	
Maximum Series Fuse	20A	
Rating Power Sorting	0~+5W	

*STC: Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator used, power measurement uncertainty is within +/- 3%.

Belinus Ultra Black N-Night IBC All-In-One Warranty

Conventional Solar Panel Warranty

Service Warranty		
Shipping - new part	✓	✗
Shipping - old part	✓	✗
Intallation	✓	✗
Product Warranty	35 years	10 years
Power Warranty		
Start point	100%	97%
Yearly decline	0%	0.7%
End point (25 years)	100%	80%
End point (35 years)	100%	✗



Qualifications and certificates



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.

BE-DSH2022 V1

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