

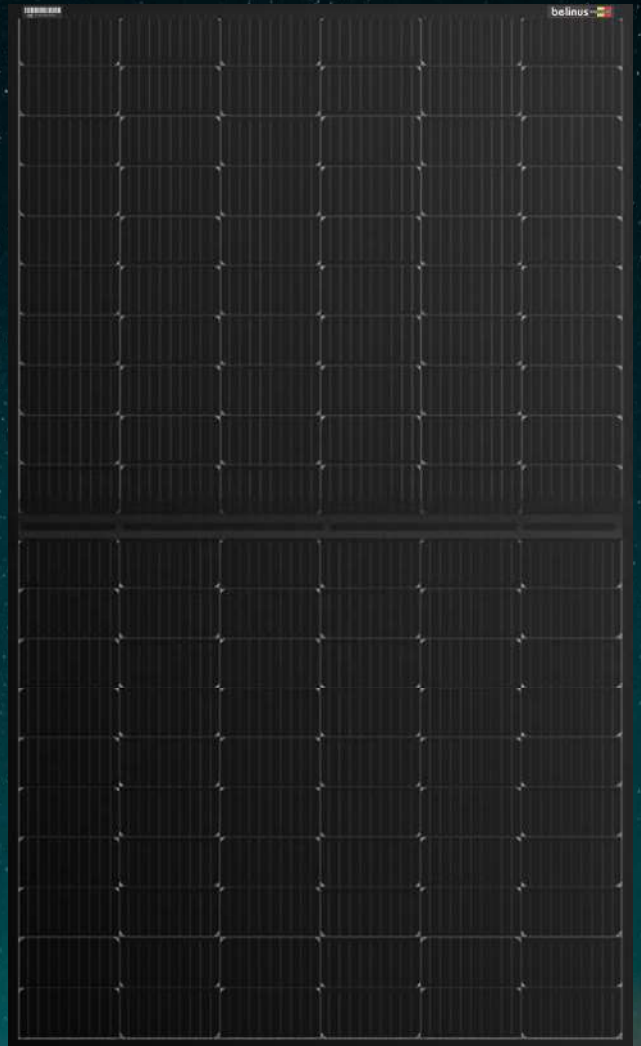


**APG ENERGIE**

BELINUS M8 ULTRA BLACK

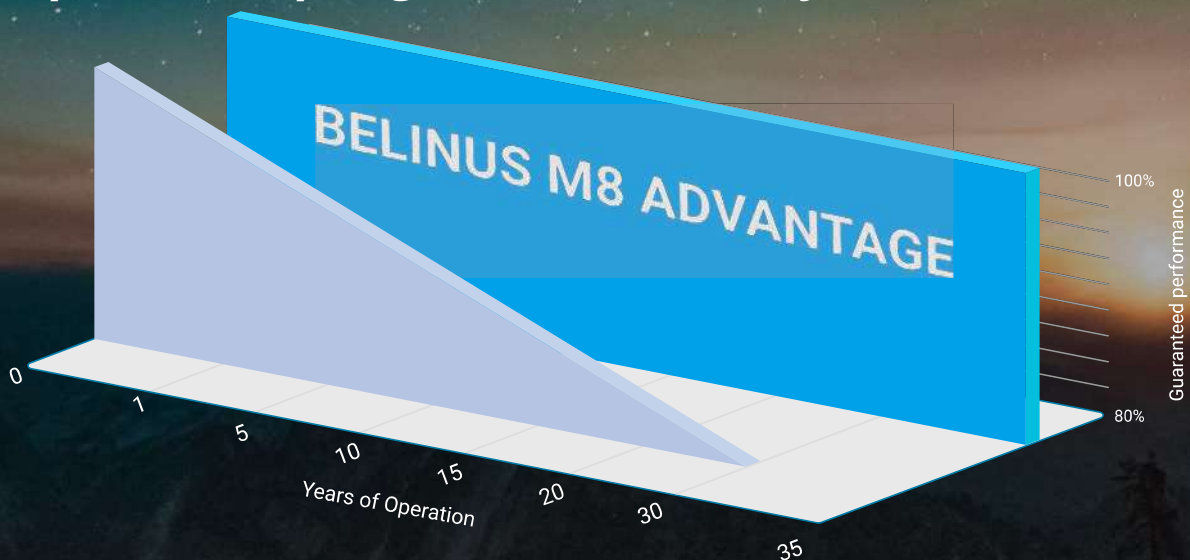


# M8 N-type HJT Ultra Black GlasGlas



*Fundamentally different.  
And better.*

100% power output guarantee for 35 years



**390WP**  
**214<sup>W</sup>/**  
**M<sup>2</sup>**



### Mechanical Characteristics

Laminate Structure	Glass/ POE/ Cells/ POE/ Glass
Cell Type	HJT Mono 166 x 83 mm
Cell Connection	120 (60x2)
Module Dimensions	1755 x 1038 x 30 mm
Weight	23.5kg
Junction Box	Degree of protection IP68
Output Cable	4mm <sup>2</sup> , 1200mm in length
Connectors Type	Staubli MC4
Frame	Anodised Aluminum Alloy
Encapsulant	POE
Front Load	5400 Pa
Real Load	2400 Pa
Glass Thickness	(F) 2.0mm DLAR Solar glass (B) 2.0mm Solar glass

### Electrical Characteristics (STC\*)

Maximum Power (Pmax)	390W
Max Module Efficiency(%)	21.4%
Voltage at Max Power (Vmp)	37.2V
Current at Max Power (Imp)	10.5A
Open Circuit Voltage (Voc)	44.7V
Short Circuit Voltage (Isc)	10.9A
Operating Module Temperature	-40 to +85°C
Maximum System Voltage	DC1500V
Maximum Series Fuse	20A
Rating Power Sorting	0~+5W
Bifaciality (%)	90

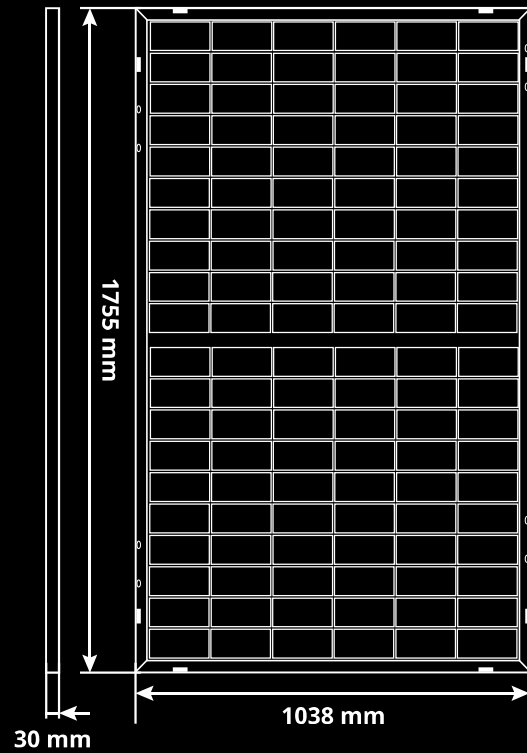
\*STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, AM=1.5; Best in Class AAA solar simulator used, power measurement uncertainty is within +/- 3%.

### 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.

### Technical Characteristics



### Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44°C (±2°C)
Temperature Coefficient of Pmax	-0.255 %/°C
Temperature Coefficient of Voc	-0.235 %/°C
Temperature Coefficient of Isc	0.04 %/°C

### Packaging Information

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

Belinus M8 HJT All-In-One Warranty	VS	Conventional Solar Panel Warranty
	Service Warranty	
✓	Shipping - new part	✗
✓	Shipping - old part	✗
✓	Intallation	✗
<b>30 years</b>	Product Warranty	<b>10 years</b>
	Power Warranty	
<b>100%</b>	Start point	<b>97%</b>
<b>0%</b>	Yearly decline	<b>0.7%</b>
<b>100%</b>	End point (25 years)	<b>80%</b>
<b>100%</b>	End point (35 years)	✗

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