

# Ultra Black

## 375-390 W

*Fundamentally different.  
And much better.*



### Ultra Black Solar Cell Technology

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



### DLAR Glass Coating Technology

Boosting solar glass transmission and therefore increase panel efficiency by up to 5%



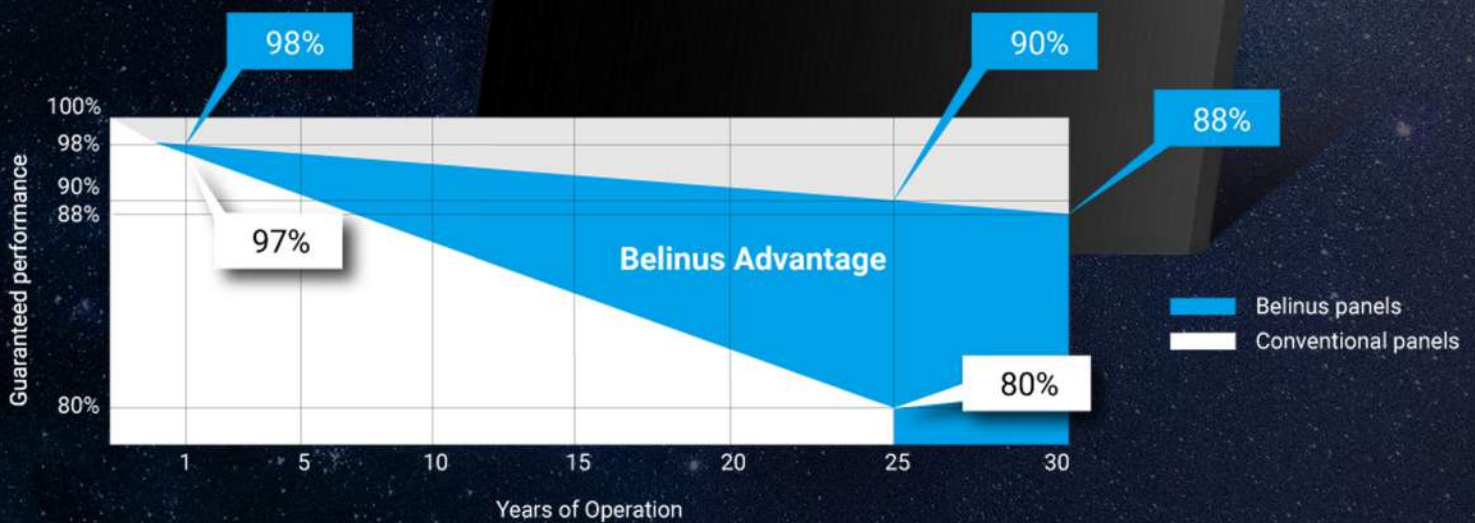
### Bloomberg Tier 1 Production

Both the Belinus solar cells and solar modules are produced by certified suppliers in the 2021



### European Quality

Each Belinus panels are made by certified materials and they go through rigorous three steps European quality assurance process



**30** yr  
Product warranty

**30** yr  
Performance warranty

**30** yr  
Service warranty

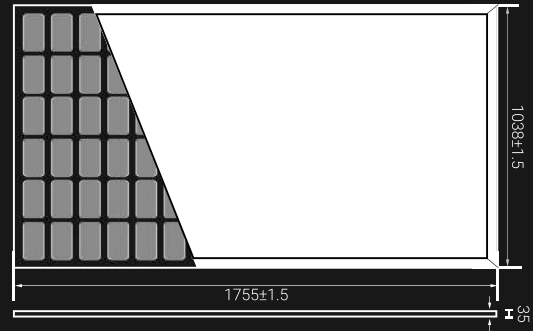
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*"The most comprehensive warranty in the entire solar industry."*

[www.belinus.be](http://www.belinus.be)

## MECHANICAL SPECIFICATION

Solar Cell	Monocrystalline silicon 166 mm
No. of Cells	120 (6 × 20)
Dimension	1755 × 1038 × 35mm ± 1.5 mm
Weight	19.5 kg
Front Glass	3.2 mm with DLAR coating technology
Frame	Anodized aluminium alloy
Output Cables	4.0 mm <sup>2</sup> , 1200mm
Junction box	IP68 rated
Connection technology	Stäubli Electrical MC4-connectors



## ELECTRICAL CHARACTERISTIC

STC	375	380	385	390
Maximum Power at STC (Pmax)	375	380	385	390
Optimum Operating Voltage (Vmp)	34.2V	34.3V	34.4V	34.5V
Optimum Operating Current (Imp)	10.98A	11.09A	11.20A	11.31A
Open Circuit Voltage (Voc)	41.6V	41.7V	41.8V	41.9V
Short Circuit Current (Isc)	11.85A	11.98A	12.10A	12.22A
Module Efficiency	20.6%	20.9%	21.2%	21.5%
Operating Module Temperature	-40 °C to +85 °C			
Maximum System Voltage	1500 V DC (IEC)			
Maximum Series Fuse Rating	20 A			
Power Tolerance	0 / + 5 W			

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5; Tolerances of Pmax, Voc and Isc are all within +/- 5%

## TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature (NMOT)	45 °C	Temperature Coefficient of Voc	-0.29 %/°C
Temperature Coefficient of Pmax	-0.37 %/°C	Temperature Coefficient of Isc	0.05 %/°C

## QUALIFICATIONS AND CERTIFICATES



## PACKAGING INFORMATION

Container	40'HC
Pieces per pallet	33
Pallets per container	26
Pieces per container	858

Note: Both the Belinus solar cells and solar modules are made by suppliers in the 2021 Bloomberg Tier 1 List



Belinus All-In-One Warranty	vs	Conventional Solar Panel Warranty
	<b>Service Warranty</b>	
✓	Shipping - new part	✗
✓	Shipping - old part	✗
✓	Intallation	✗
<b>30 years</b>	<b>Product Warranty</b>	<b>10 years</b>
	<b>Power Warranty</b>	
<b>98%</b>	Start point	<b>97%</b>
<b>0.34%</b>	Yearly decline	<b>0.7%</b>
<b>90%</b>	End point (25 years)	<b>80%</b>
<b>88%</b>	End point (30 years)	✗

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**belinus** DESIGNED AND ENGINEERED IN BELGIUM

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