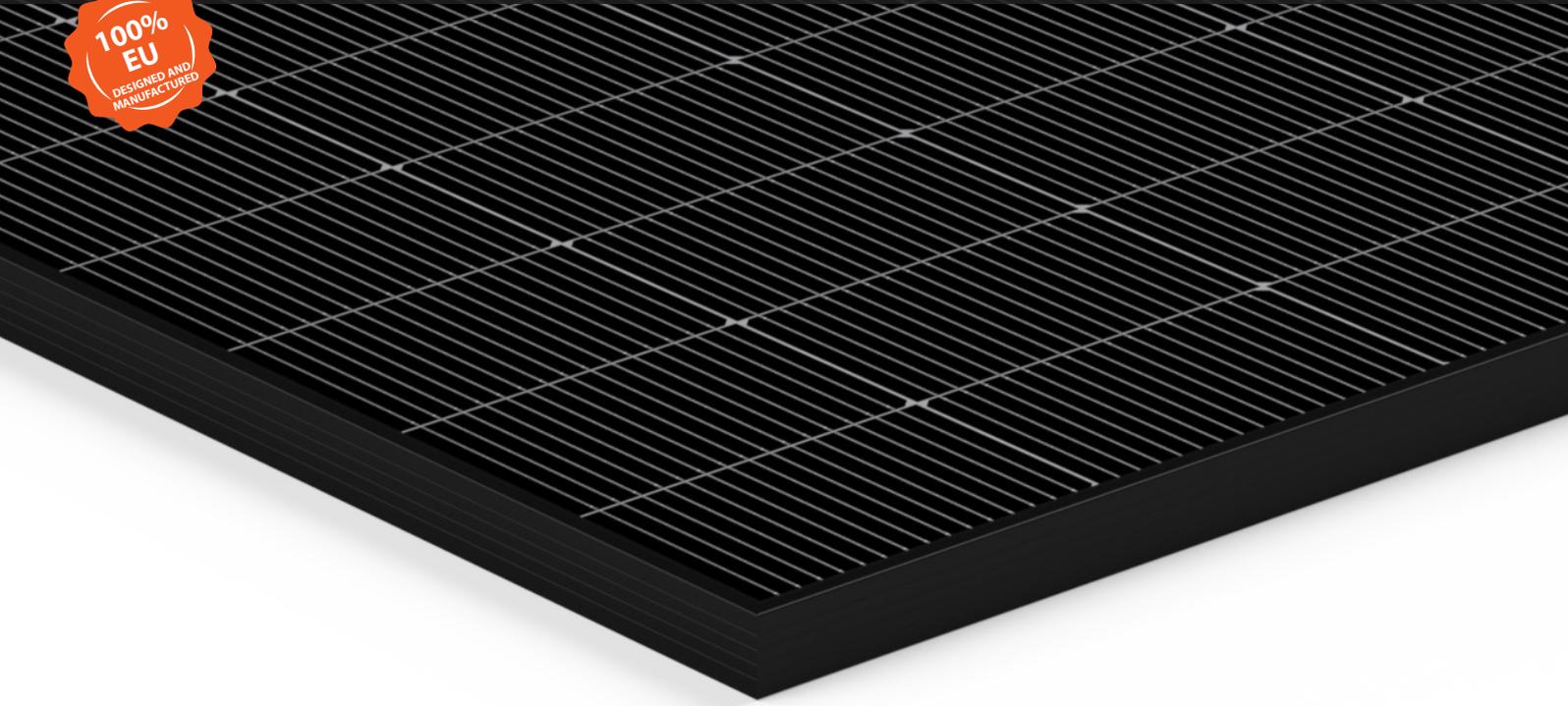


PREMIUM

BISOL® Bifacial

Bifacial Half-Cut PV Modules with Transparent Backsheet / BBO 500-520 Wp (+ Bifacial Gain)



Made in Europe



30 years of EU Guarantee



Hail and Fire resistant



Uncompromisingly certified



7.000 Pa Snow load



PID and LETID free



Highest Efficiency

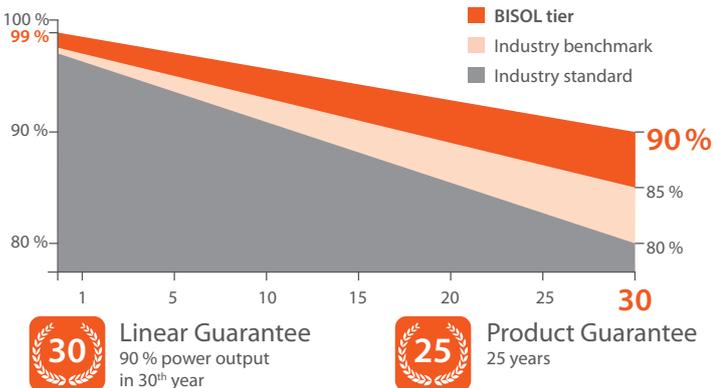


Module sorting technology



Low maintenance costs

Guarantee:



In compliance with:



Certificates available upon request. Additional charges may apply.

Electrical Specifications @ STC (1,000 W/m², AM 1.5, 25 °C):

Module Type	BBO	500	510	520
Nominal Power	P_{MPP} [W]	500	510	520
Short Circuit Current	I_{SC} [A]	16.0	16.1	16.2
Open Circuit Voltage	V_{OC} [V]	39.6	40.0	40.6
MPP Current	I_{MPP} [A]	15.0	15.2	15.4
MPP Voltage	V_{MPP} [V]	33.3	33.6	33.8
Module Efficiency	η_M [%]	22.3	22.8	23.2
Cell Efficiency	η_C [%]	24.2	24.7	25.2
Power Output Tolerance			±3 %	
Maximum System Voltage			1,500 V	
Maximum Reverse Current			30 A	
Protection Class			Class II	
Bifaciality			72 % ± 5 %	

Electrical specifications at STC (1,000 W/m², AM 1.5, 25 °C), NOCT (800 W/m², AM 1.5, 42 °C, Wind 1 m/s), BSTC (1000 W/m² front side, 135 W/m² back side, AM 1.5, 25 °C). | Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. | Tolerances for V_{OC} and I_{SC} and other electrical parameters are ±3 %. | Additional power classes available upon request.

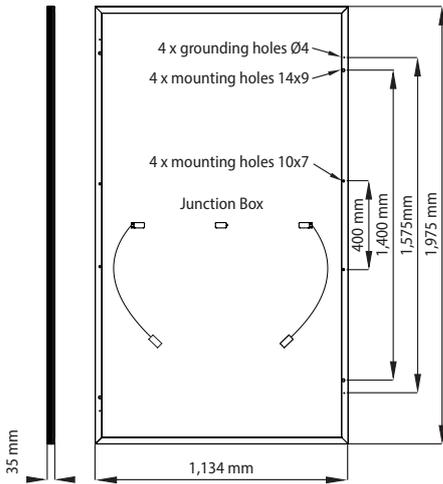
Electrical Specifications @ NOCT (800 W/m², AM 1.5, 42 °C, Wind 1 m/s):

Module Type	BBO	500	510	520
Nominal Power	P_{MPP} [W]	384	391	399
Short Circuit Current	I_{SC} [A]	12.9	13.0	13.1
Open Circuit Voltage	V_{OC} [V]	37.9	38.3	38.9
MPP Current	I_{MPP} [A]	12.1	12.3	12.4
MPP Voltage	V_{MPP} [V]	31.7	31.9	32.1
Module Efficiency	η_M [%]	22.3	22.8	23.2
Cell Efficiency	η_C [%]	24.2	24.7	25.2
Power Output Tolerance			±3 %	
Maximum System Voltage			1,500 V	
Maximum Reverse Current			30 A	

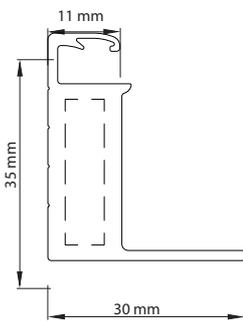
Electrical Specifications @ BSTC (1,000 W/m² front, 135 W/m² back, AM 1.5, 25 °C):

Module Type	BBO	500	510	520
Nominal Power	P_{MPP} [W]	567.5	578.9	590.2
Short Circuit Current	I_{SC} [A]	18.0	18.3	18.7
Open Circuit Voltage	V_{OC} [V]	39.6	40.0	40.6
MPP Current	I_{MPP} [A]	17.0	17.3	17.5
MPP Voltage	V_{MPP} [V]	33.3	33.6	33.8
Module Efficiency	η_M [%]	22.3	22.8	23.2
Cell Efficiency	η_C [%]	24.2	24.7	25.2
Power Output Tolerance			±3 %	
Maximum System Voltage			1,500 V	
Maximum Reverse Current			30 A	
Protection Class			Class II	
Bifaciality			72 % ± 5 %	

Dimensions



Frame Cross Section



Thermal Specifications:

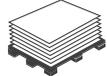
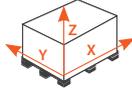
Current Temperature Coefficient	α	+ 0.05 %/°C
Voltage Temperature Coefficient	β	- 0.25 %/°C
Power Temperature Coefficient	γ	- 0.29 %/°C
NOCT		42 °C (±3 °C)
Temperature Range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	1,975 x 1,134 x 35 mm
Weight	23.5 kg
Solar Cells	108 Half-Cut Bifacial c-Si / 182.25 x 105 mm
Junction Box / Connectors / IP	3 bypass diodes / MC4 compatible; On demand: MC4 EVO2 / IP 68
Cable Length	Default: 1,200 mm On demand (for portrait orientation): 300 mm
Frame	Anodized Al with mounting and drainage holes / rigid anchored corners
Glass	3.2 mm AR coating tempered glass / high-transparency / low-iron content
Certified Test Load (Snow / Wind)	7,000 Pa / 2,400 Pa
Impact Resistance	Hailstone / Ø 40 mm / 99.1 km/h (61.6 mph)

Tolerances of values are ±5 %. Unspecified product properties remain under full discretion of BISOL Production.

Packaging Information:

				
Modules per Pallet	Packing Dimension: Length/Width/Height	Stackable	Packing Weight	Tot. Nr. of Pallets/Load
30	200 x 116 x 128 cm	3 pallets	732 kg	26