

PREMIUM

# BISOL Bifacial

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



Designed and  
manufactured in EU



Higher power



Lower losses



Module presorting  
for higher profitability



Excellent low light  
performance



Natural light transmission



Available with or  
without frame

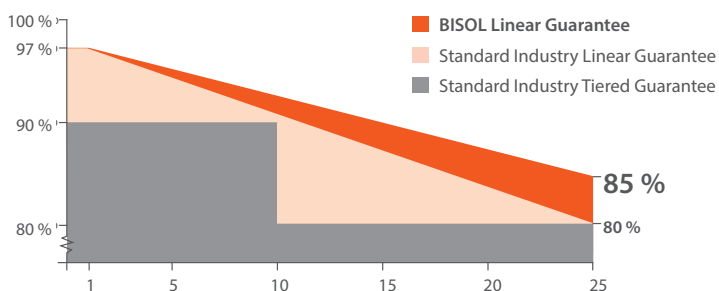


Transparent back foil



Bifacial module

## Guarantees:



**Linear Guarantee**  
85 % power output  
in 25<sup>th</sup> year



**Product Guarantee**  
Standard: 15 years  
Extra: 20 years

## In compliance with:



Certificates available upon special 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	$\eta_M$ [%]	22.3	22.8	23.2
Cell Efficiency	$\eta_C$ [%]	24.2	24.7	25.2
Power Output Tolerance		$\pm 3$ %		
Maximum System Voltage		1,500 V		
Maximum Reverse Current		30 A		
Protection Class		Class II		
Bifaciality		72 % $\pm$ 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). I Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. I Tolerances for  $V_{OC}$  and  $I_{SC}$  and other electrical parameters are  $\pm 3$  %. I Additional power classes available upon request.

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

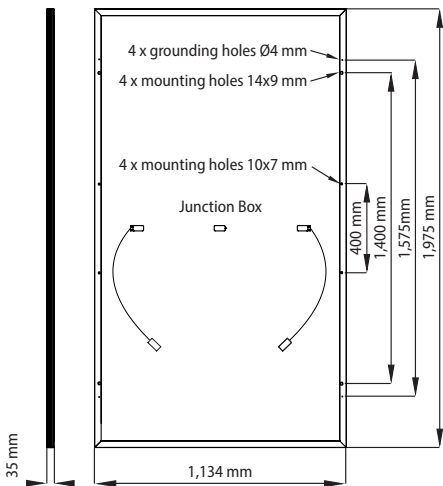
Module Type	BBO	500	510	520
Nominal Power	$P_{MPP}$ [W]	384	391	399
Short Circuit Current	$I_{SC}$ [A]	12.9	13.0	13.1
Open Circuit Voltage	$V_{OC}$ [V]	37.9	38.3	38.9
MPP Current	$I_{MPP}$ [A]	12.1	12.3	12.4
MPP Voltage	$V_{MPP}$ [V]	31.7	31.9	32.1
Module Efficiency	$\eta_M$ [%]	22.3	22.8	23.2
Cell Efficiency	$\eta_C$ [%]	24.2	24.7	25.2
Power Output Tolerance		$\pm 3$ %		
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):

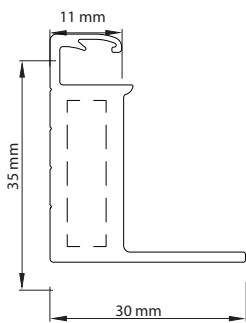
Module Type	BBO	500	510	520
Nominal Power	$P_{MPP}$ [W]	567.5	578.9	590.2
Short Circuit Current	$I_{SC}$ [A]	18.0	18.3	18.7
Open Circuit Voltage	$V_{OC}$ [V]	39.6	40.0	40.6
MPP Current	$I_{MPP}$ [A]	17.0	17.3	17.5
MPP Voltage	$V_{MPP}$ [V]	33.3	33.6	33.8
Module Efficiency	$\eta_M$ [%]	22.3	22.8	23.2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



Dimensions



Frame Cross Section



Thermal Specifications:

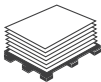
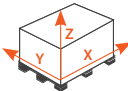



Current Temperature Coefficient	$\alpha$	+ 0.05 %/°C
Voltage Temperature Coefficient	$\beta$	- 0.25 %/°C
Power Temperature Coefficient	$\gamma$	- 0.29 %/°C
NOCT		42 °C (±3 °C)
Temperature Range		- 40 °C to + 85 °C

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 / 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 35 mm / 83 km/h (51 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

