

PREMIUM

BISOL Bifacial

Bifacial Half-Cut PV Modules with Transparent Backsheet / BBO 450 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

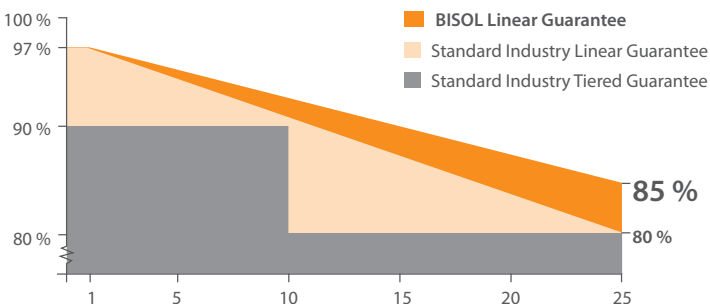


Transparent back foil



Bifacial module

Guarantees:



25 Linear Guarantee
85% power output in 25th year

15 Product Guarantee
15 years

In compliance with:



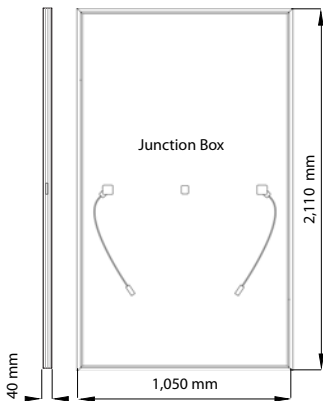
Certificates available upon special request. Additional charges may apply.

Electrical Specifications @ STC (AM1.5, 1,000 W/m², 25 °C):

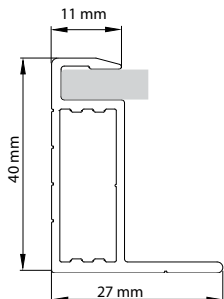
Module Type	BBO	450				
Number of Cells		144				
Cell Matrix		6 x 12 + 6 x 12				
Transparent Area	m ²	0.06				
	%	3				
		Front	Bifacial Gain			
Light Source	%	100	10	20	30	40
Nominal Power	P_{MPP} [W]	450	495	540	585	630
Short Circuit Current	I_{SC} [A]	11.31	12.44	13.57	14.70	15.83
Open Circuit Voltage	V_{OC} [V]	49.2	49.2	49.2	49.2	49.2
MPP Current	I_{MPP} [A]	10.74	11.81	12.89	13.96	15.03
MPP Voltage	V_{MPP} [V]	41.9	41.9	41.9	41.9	41.9
Module Efficiency	η_M [%]	20.3	22.3	24.4	26.4	28.4
Power Output Tolerance		±3 %				
Maximum Reverse Current		20 A				
Maximum System Voltage		1,500 V				
Protection Class		Class II				

Additional power classes available upon request. | Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. | Tolerances for V_{OC} and I_{SC} are 3 %.

Dimensions



Frame Cross Section



Thermal Specifications:

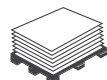
Current Temperature Coefficient	α	+ 0.06 %/ °C
Voltage Temperature Coefficient	β	- 0.27 %/ °C
Power Temperature Coefficient	γ	- 0.35 %/ °C
NOCT		44 ± 2 °C
Temperature Range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	2,110 x 1,050 x 40 mm
Weight	24.5 kg
Solar Cells	144 Half-Cut mono PERC Bifacial c-Si / 166 mm x 166 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 drainage holes / rigid anchored corners
Glass	3.2 mm AR coating tempered glass / high-transparency / low-iron content
Certified Test Load (Snow / Wind)	5,400 Pa / 2,400 Pa
Impact Resistance	Hailstone / Ø 25 mm / 83 km/h (51 mph)

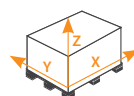
Tolerances of values are ±5 %. Unspecified product properties remain under full discretion of BISOL Production.

Packaging Information:



Modules per Pallet

27



Packing Dimension:
Length/Width/Height

214 x 109 x 130 cm



Stackable

3 pallets



Packing Weight

703 kg



Tot. Nr. of Pallets/Load

24