

PREMIUM

BISOL Lumina

Bifacial PV Modules with Transparent Backsheet / BBO 300 Wp (+ Bifacial Gain)



Designed and manufactured in EU



All relevant certificates



Lower losses



Module presorting for higher profitability



Excellent low light performance



Natural light transmission



Available with or without frame

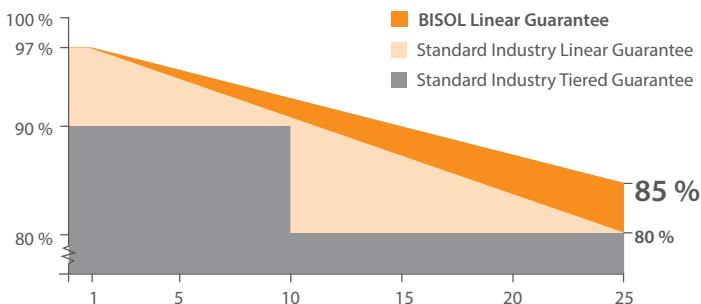


Transparent back foil



Bifacial module

Guarantees:



Linear Guarantee
85% power output in 25th year



Product Guarantee
15 years

In compliance with:



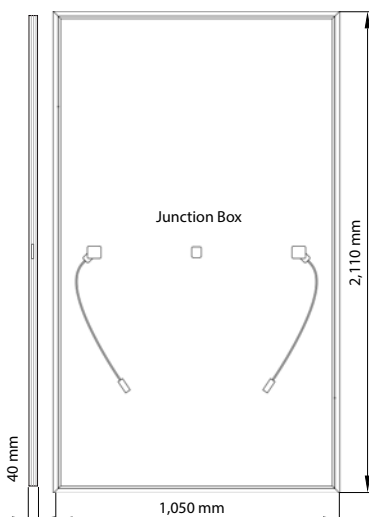
Certificates available upon special request. Additional charges may apply.

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

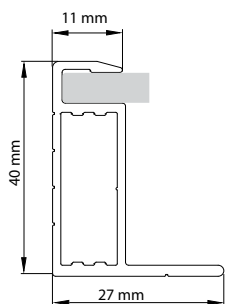
Module Type		BBO 300					
Number of Cells		96					
Cell Matrix		6 x 8 + 6 x 8					
Transparent Area	m ²	0.73					
	%	33					
		Front	Bifacial Gain				
Light Source	%	100	5	10	20	30	40
Nominal Power	P_{MPP} [W]	300	315	330	360	390	420
Short Circuit Current	I_{SC} [A]	11.2	11.8	12.4	13.5	14.6	15.7
Open Circuit Voltage	V_{OC} [V]	32.9	32.9	32.9	32.9	32.9	32.9
MPP Current	I_{MPP} [A]	10.7	11.2	11.8	12.8	13.9	15.0
MPP Voltage	V_{MPP} [V]	28.1	28.1	28.1	28.1	28.1	28.1
Module Efficiency	η_M [%]	13.5	14.2	14.9	16.3	17.6	19.0
Power Output Tolerance		±3 %					
Maximum Reverse Current		20 A					
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:

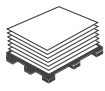
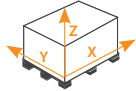



Current Temperature Coefficient	α	+ 0.06 %/ °C
Voltage Temperature Coefficient	β	- 0.27 %/ °C
Power Temperature Coefficient	γ	- 0.35 %/ °C
NOCT		44 ± 2 °C
Temperature Range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	2,110 x 1,050 x 40 mm	
Weight	24.5 kg	
Solar Cells	96 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	Packing Dimension: Length/Width/Height	Stackable	Packing Weight	Tot. Nr. of Pallets/Load
27	214 x 109 x 130 cm	3 pallets	703 kg	24