

PREMIUM

BISOL Lumina

Bifacial PV Modules with Transparent Backsheet / BBO 430 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

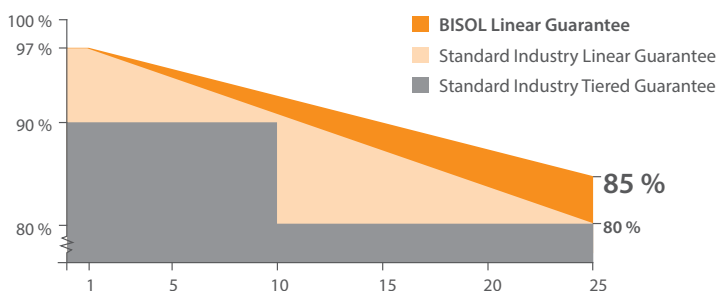


Transparent back foil



Bifacial module

Guarantees:



In compliance with:



Certificates available upon special request. Additional charges may apply.



Linear Guarantee
85 % power output in 25th year



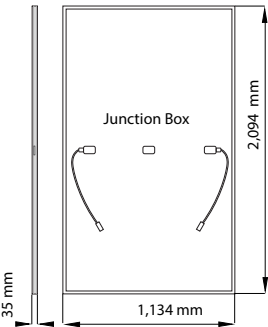
Product Guarantee
Standard: 15 years
Extra: 20 years

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

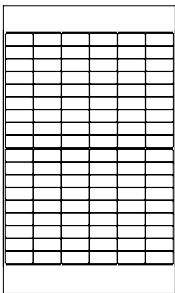
Module Type		BBO	430					
Number of Cells			108					
Cell Matrix			6 x 9 + 6 x 9					
Transparent Area	m²		0.52					
	%		22.5					
			Front	Bifacial Gain				
Light Source	%		100	10	20	30	40	
Nominal Power	P_{MPP} [W]		430	473	516	559	602	
Short Circuit Current	I_{SC} [A]		13.7	15.0	16.3	17.6	18.9	
Open Circuit Voltage	V_{OC} [V]		39.9	40.1	40.2	40.4	40.5	
MPP Current	I_{MPP} [A]		13.0	14.2	15.5	16.7	17.9	
MPP Voltage	V_{MPP} [V]		33.1	33.4	33.3	33.5	33.7	
Module Efficiency	η_M [%]		18.5					
Power Output Tolerance			±3 %					
Maximum Reverse Current			25 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 %.

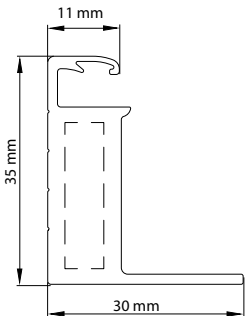
Dimensions



Matrix



Frame Cross Section



Thermal Specifications:

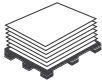
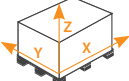



Current Temperature Coefficient	α	+ 0,045 %/°C
Voltage Temperature Coefficient	β	- 0,250 %/°C
Power Temperature Coefficient	γ	- 0,300 %/°C
NOCT		42 ± 3 °C
Temperature Range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	2,094 x 1,134 x 35 mm
Weight	26 kg
Solar Cells	108 Half-Cut mono Bifacial c-Si / 182 mm x 91 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 / Φ 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
30	212 x 116 x 127 cm	3 Pallets	807 kg	24