

PREMIUM

BISOL Bifacial

Bifacial Half-Cut PV Modules with Transparent Backsheet / BDO 425 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

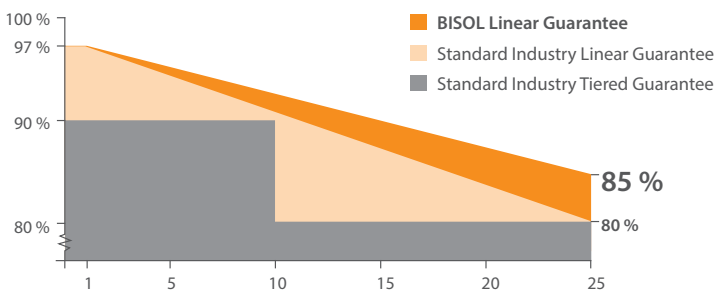


Transparent back foil



Bifacial module

Guarantees:



Linear Guarantee
85% power output in 25th year



Product Guarantee
Standard: 15 years
Extra: 20 years

In compliance with:



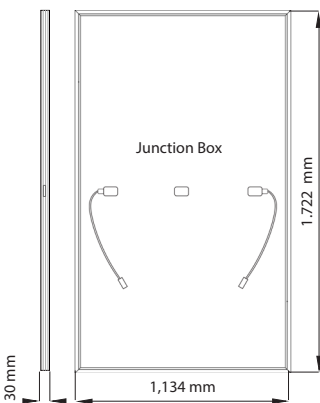
Certificates available upon special request. Additional charges may apply.

Electrical Specifications @ STC, BSTC, NOCT:

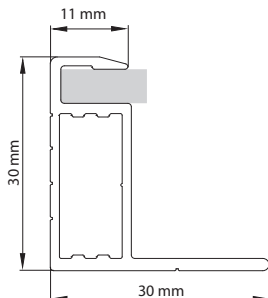
Module Type	BDO	425		
Number of Cells		108		
Cell Matrix		6 x 9 + 6 x 9		
Transparent Area	m ²	0.07		
	%	3.6		
		STC	BSTC	NOCT
Nominal Power	P_{MPP} [W]	425	466.1	326.0
Short Circuit Current	I_{SC} [A]	14.3	15.7	11.5
Open Circuit Voltage	V_{OC} [V]	37.9	38.0	36.3
MPP Current	I_{MPP} [A]	13.6	14.9	11.0
MPP Voltage	V_{MPP} [V]	31.3	31.4	29.8
Module Efficiency	η_M [%]	21.8		
Cell Efficiency	η_C [%]	23.8		
Power Output Tolerance		±3 %		
Maximum Reverse Current		25 A		
Maximum System Voltage		1,500 V		
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). | 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.

Dimensions



Frame Cross Section



Thermal Specifications:

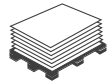
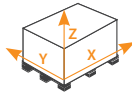



Current Temperature Coefficient	α	+ 0.045 %/°C
Voltage Temperature Coefficient	β	- 0.250 %/°C
Power Temperature Coefficient	γ	- 0.300 %/°C
NOCT		42 ± 3 °C
Temperature Range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	1,722 x 1,134 x 30 mm
Weight	22 kg
Solar Cells	108 Half-Cut 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
35	175 x 116 x 128 cm	3 pallets	794 kg	30