

PREMIUM

BISOL Lumina

Bifacial PV Modules with Transparent Backsheet / BDO 320 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

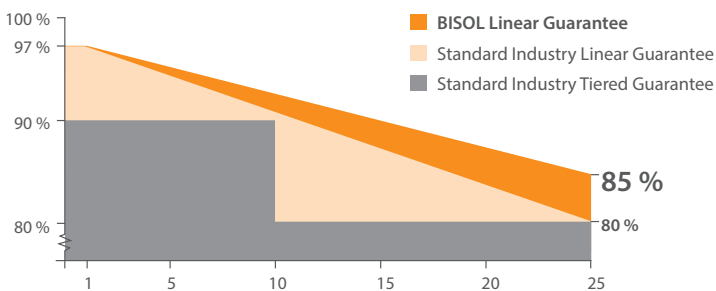


Transparent back foil



Bifacial module

Guarantees:



Linear Guarantee
85% power output in 25th year



Product Guarantee
Standard: 15 years
Extra: 20 years

In compliance with:



Certificates available upon special request. Additional charges may apply.

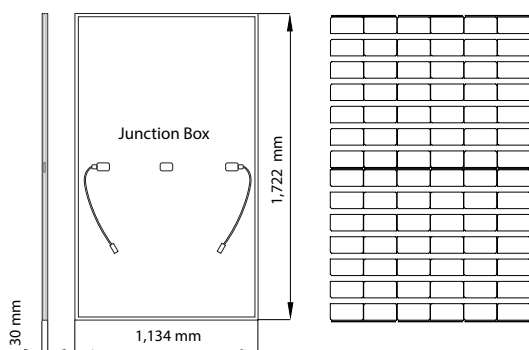
Electrical Specifications @ STC (AM1.5, 1,000 W/m², 25 °C):

Module Type	BDO	320				
Number of Cells		84				
Cell Matrix		6 x 7 + 6 x 7				
Transparent Area	m ²	0.50				
	%	26.5				
		Front	Bifacial Gain			
Light Source	%	100	10	20	30	40
Nominal Power	P_{MPP} [W]	320	352	384	416	448
Short Circuit Current	I_{SC} [A]	13.7	15.0	16.3	17.6	18.9
Open Circuit Voltage	V_{OC} [V]	31.0	31.1	31.3	31.4	31.5
MPP Current	I_{MPP} [A]	13.0	14.2	15.5	16.7	17.9
MPP Voltage	V_{MPP} [V]	24.7	24.8	24.9	25.0	25.1
Module Efficiency	η_M [%]	16.4				
Power Output Tolerance		±3 %				
Maximum Reverse Current		25 A				
Maximum System Voltage		1,500 V				
Protection Class		Class II				

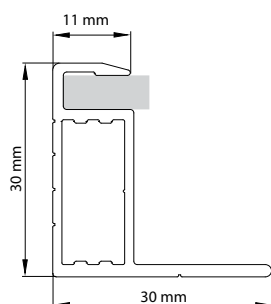
Additional power classes available upon request. | Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. | Tolerances for V_{OC} and I_{SC} are 3 %.

Dimensions

Matrix



Frame Cross Section



Thermal Specifications:

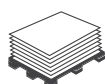
Current Temperature Coefficient	α	+ 0.05 %/°C
Voltage Temperature Coefficient	β	- 0.26 %/°C
Power Temperature Coefficient	γ	- 0.34 %/°C
NOCT		43 ± 2 °C
Temperature Range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	1,722 x 1,134 x 30 mm
Weight	22 kg
Solar Cells	84 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

35



Packing Dimension:
Length/Width/Height

175 x 116 x 128 cm



Stackable

3 pallets



Packing Weight

794 kg



Tot. Nr. of Pallets/
Load

30



Solar company!

www.bisol.com

Additional terms & conditions apply. Please see *Standard Limited Guarantee* and *General Sales Terms & Conditions*.

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