

PREMIUM

# BISOL Lumina

Bifacial PV Modules with Transparent Backsheet / BBO 400 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

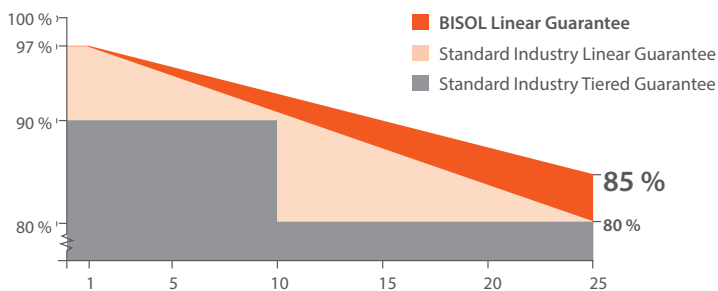


Transparent back foil



Bifacial module

## Guarantees:



Linear Guarantee  
85% power output in 25<sup>th</sup> year



Product Guarantee  
Standard: 15 years  
Extra: 20 years

## In compliance with:



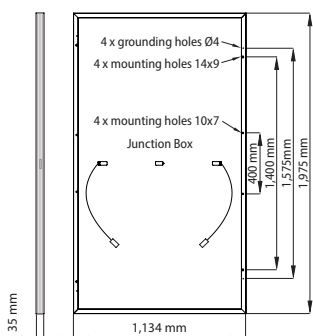
Certificates available upon special request. Additional charges may apply.

## Electrical Specifications @ STC (AM1.5, 1,000 W/m<sup>2</sup>, 25 °C):

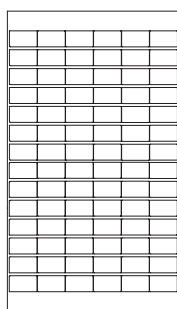
Module Type	BBO	400				
Number of Half-Cut c-Si		84				
Cell Matrix		6 x 7 + 6 x 7				
Transparent Area	m <sup>2</sup>	0.551				
	%	25.3				
		Front	Bifacial Gain			
Light Source	%	100	10	20	30	40
Nominal Power	$P_{MPP}$ [W]	400	440	480	520	560
Short Circuit Current	$I_{SC}$ [A]	16.1	17.6	19.2	20.7	22.2
Open Circuit Voltage	$V_{OC}$ [V]	31.4	31.6	31.6	31.8	31.9
MPP Current	$I_{MPP}$ [A]	15.3	16.8	18.2	19.7	21.1
MPP Voltage	$V_{MPP}$ [V]	26.2	26.2	26.4	26.4	26.6
Module Efficiency	$\eta_M$ [%]	17.9				
Power Output Tolerance		±3 %				
Maximum Reverse Current		30 A				
Maximum System Voltage		1,500 V				
Protection Class		Class II				

Additional power classes available upon request. | Efficiency at irradiation 200 W/m<sup>2</sup>: 99.3 % of STC efficiency or higher. | Tolerances for  $V_{OC}$  and  $I_{SC}$  are 3 %.

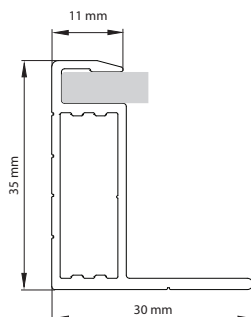
### Dimensions



### Matrix



### Frame Cross Section



### Thermal Specifications:

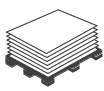
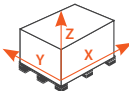



Current Temperature Coefficient	$\alpha$	+ 0.05 %/°C
Voltage Temperature Coefficient	$\beta$	- 0.25 %/°C
Power Temperature Coefficient	$\gamma$	- 0.29 %/°C
NOCT		42 °C (±3 °C)
Temperature Range		- 40 °C to + 85 °C

### Mechanical Specifications:

Length x Width x Thickness	1,975 x 1,134 x 35 mm
Weight	23.5 kg
Solar Cells	84 Half-Cut c-Si / 182.25 x 105 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 mounting and 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
30	200 x 116 x 128 cm	3 pallets	732 kg	26