

PREMIUM

# BISOL® Lumina

Bifacial PV Modules with Transparent Backsheet / BBO 400 Wp (+ Bifacial Gain)



MADE IN EUROPE



30 YEARS OF EU GUARANTEE



HAIL AND FIRE RESISTANT



UNCOMPROMISINGLY CERTIFIED



7.000 Pa SNOW LOAD



PID AND LETIQ FREE



HIGHEST EFFICIENCY

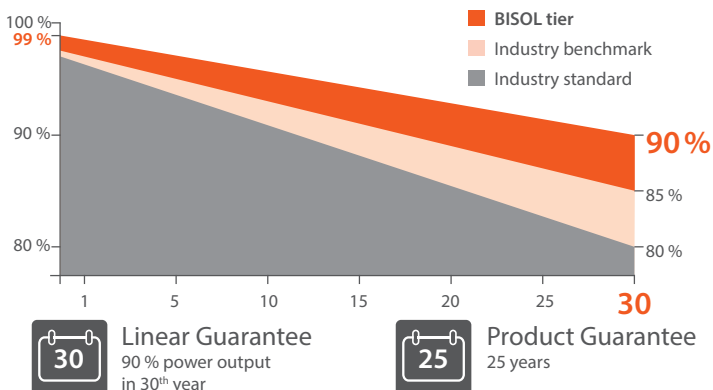


MODULE SORTING TECHNOLOGY



LOW MAINTENANCE COSTS

## Guarantee:



## In compliance with:



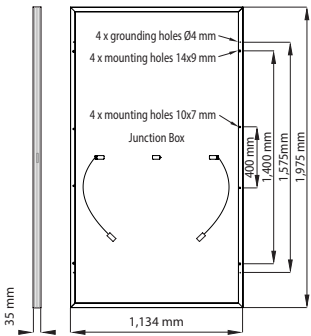
Certificates available upon request. Additional charges may apply.

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

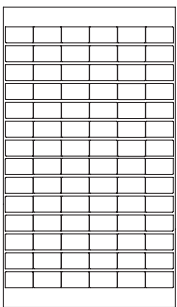
Module Type		BBO	400				
Number of Half-Cut c-Si			84				
Cell Matrix			6 x 7 + 6 x 7				
Transparent Area		m²	0.551				
		%	25.3				
			Front	Bifacial Gain			
Light Source	%		100	10	20	30	40
Nominal Power	$P_{MPP}$ [W]		400	440	480	520	560
Short Circuit Current	$I_{SC}$ [A]		16.1	17.6	19.2	20.7	22.2
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/m²: 99.3 % of STC efficiency or higher. | Tolerances for  $V_{OC}$  and  $I_{SC}$  are 3 %.

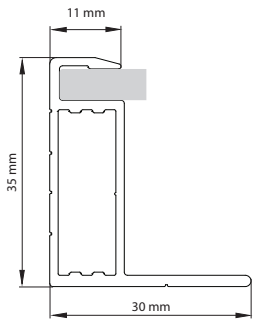
Dimensions



Matrix



Frame Cross Section



Thermal Specifications:

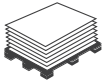
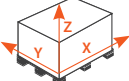



Current Temperature Coefficient	$\alpha$	+ 0.05 %/°C
Voltage Temperature Coefficient	$\beta$	- 0.25 %/°C
Power Temperature Coefficient	$\gamma$	- 0.29 %/°C
NOCT		42 °C (±3 °C)
Temperature Range		- 40 °C to + 85 °C

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; On demand: MC4 EVO2 / 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)	7,000 Pa / 2,400 Pa
Impact Resistance	Hailstone / Ø 40 mm / 99.1 km/h (61.6 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