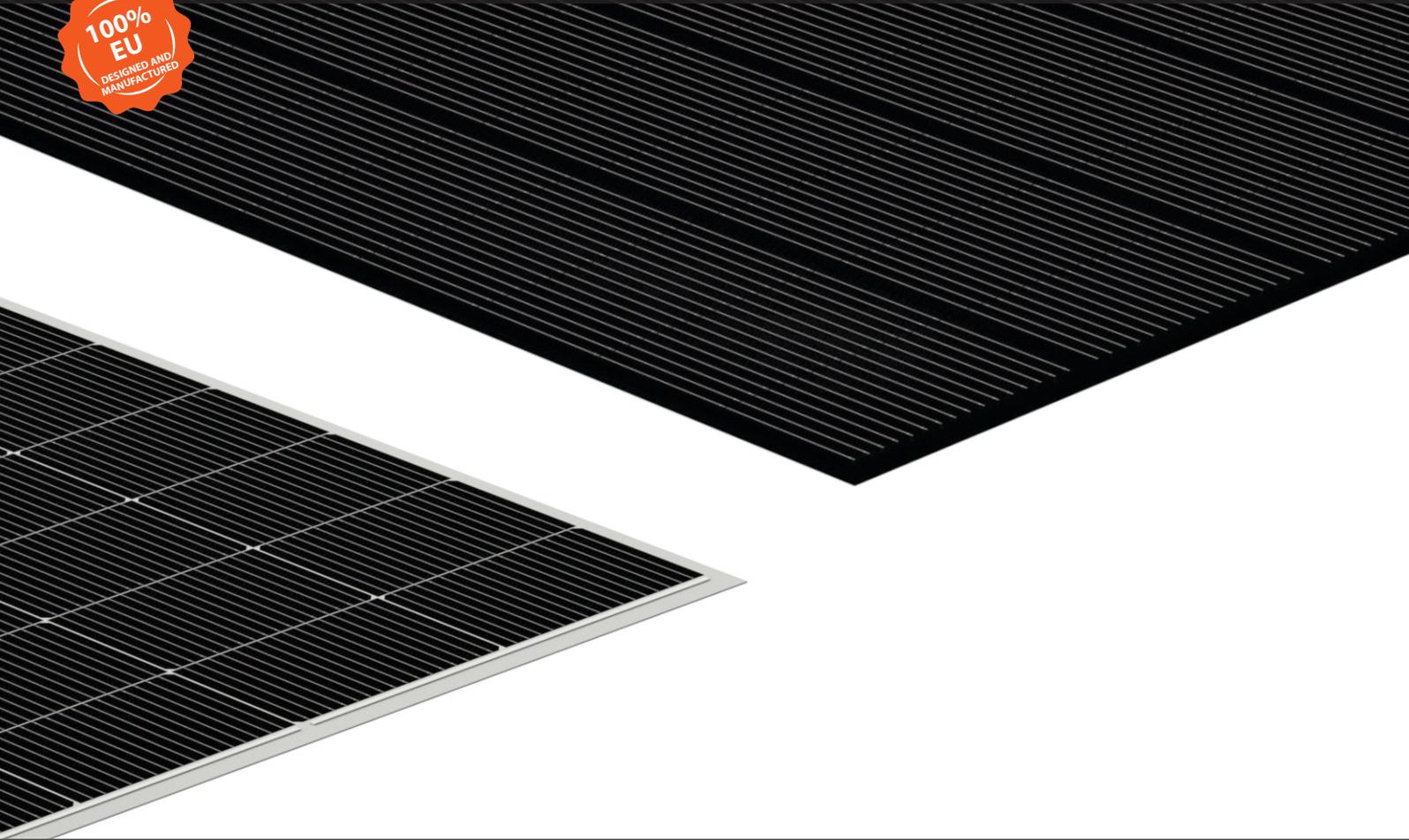


PREMIUM

# BISOL® Laminate

Monocrystalline PV Laminates / BBO 500-520 Wp



Made in Europe



15 years of EU Guarantee



Hail and Fire resistant



Uncompromisingly certified



Ideal for integration



PID and LETID free



Highest Efficiency

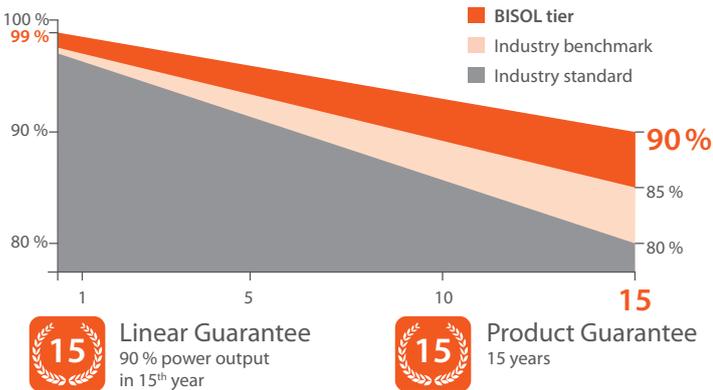


Module sorting technology



Low maintenance costs

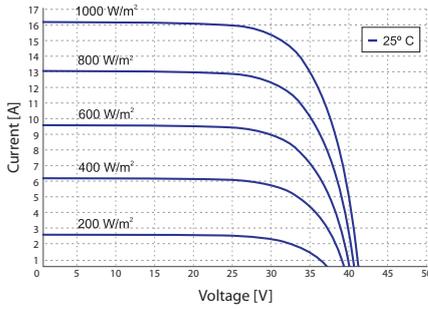
## Guarantee:



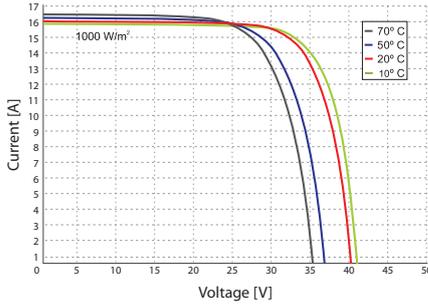
## In compliance with:



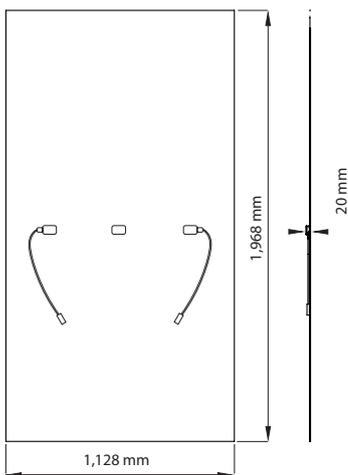
### I-V Curve at Various Irradiation Levels



### I-V Curve at Various Cell Temperatures



### Dimensions



### Electrical Specifications @ STC (1,000 W/m<sup>2</sup>, AM 1.5, 25 °C):

Module Type	BBO	500	510	520
Nominal Power	$P_{MPP}$ [W]	500	510	520
Short Circuit Current	$I_{SC}$ [A]	16.0	16.1	16.2
Open Circuit Voltage	$V_{OC}$ [V]	39.6	40.0	40.6
MPP Current	$I_{MPP}$ [A]	15.0	15.2	15.4
MPP Voltage	$V_{MPP}$ [V]	33.3	33.6	33.8
Module Efficiency	$\eta_M$ [%]	22.3	22.8	23.2
Cell Efficiency	$\eta_C$ [%]	24.2	24.7	25.2
Power Output Tolerance			0/+5 W	
Maximum System Voltage			1,500 V	
Maximum Reverse Current			30 A	
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  $I_{SC}$  and other electrical parameters are  $\pm 3$  %.

### Electrical Specifications @ NOCT (800 W/m<sup>2</sup>, AM 1.5, 42 °C, Wind 1 m/s):

Module Type	BBO	500	510	520
Nominal Power	$P_{MPP}$ [W]	384	391	399
Short Circuit Current	$I_{SC}$ [A]	12.9	13.0	13.1
Open Circuit Voltage	$V_{OC}$ [V]	37.9	38.3	38.9
MPP Current	$I_{MPP}$ [A]	12.1	12.3	12.4
MPP Voltage	$V_{MPP}$ [V]	31.7	31.9	32.1

### Thermal Specifications:

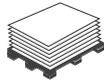
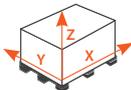
Current Temperature Coefficient	$\alpha$	+ 0.05 %/°C
Voltage Temperature Coefficient	$\beta$	- 0.25 %/°C
Power Temperature Coefficient	$\gamma$	- 0.29 %/°C
NOCT		42 °C ( $\pm 3$ °C)
Temperature Range		- 40 °C to + 85 °C

### Mechanical Specifications:

Length x Width x Thickness	1,968 x 1,128 x 20 mm
Weight	21 kg
Solar Cells	108 Half-Cut c-Si / 182.25 x 105 mm
Junction Box / Connectors	3 bypass diodes / MC4 compatible; On demand: MC4 EVO2 / IP 68
Cable Length	Default: 1,200 mm On demand (for portrait orientation): 300 mm
Glass	3.2 mm AR coating tempered glass / high-transparency / low-iron content
Certified Test Load (Snow / Wind)	Depending on Laminate fixation system*

\*Certification process can be provided by BISOL upon special request. Additional charges may apply. Tolerances of values are  $\pm 5$  %. 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	216 x 116 x 136 cm	2 pallets	660 kg	24*

\*Loading of laminates requires the use of truck with loading opening higher than 272 cm.