

PREMIUM

BISOL Laminate

Monocrystalline PV Laminates / BBO 520-530 Wp



Designed & manufactured in EU



Strictly positive output power tolerances



PID free



Ideal for integration



Module presorting for higher profitability



Supremely low degradation



Module efficiency up to 22.3 %

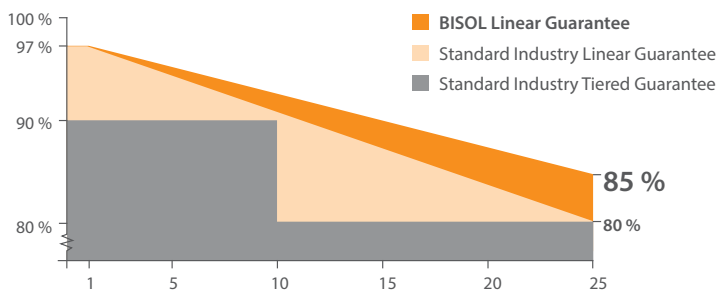


Up to 13 % higher real-life performance



Excellent low light performance

Guarantees:



Linear Guarantee
85 % power output in 25th year



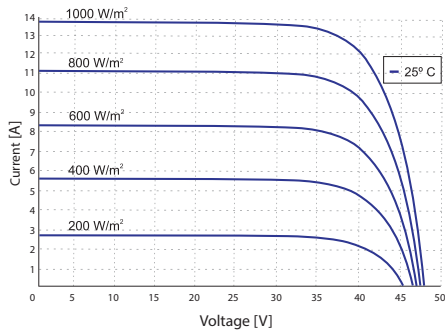
Product Guarantee
Standard: 15 years
Extra: 20 years

In compliance with:

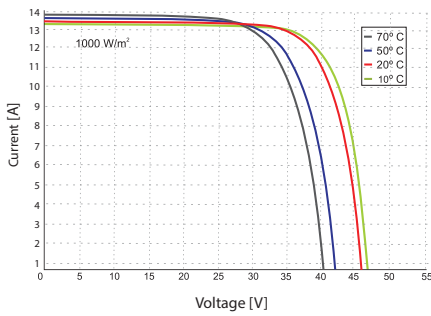


Certificates available upon request. Additional charges may apply. Laminates are manufactured according to IEC 61730 Ed.1 and IEC 61215 Ed.2 standards, but require a certification together with each specific frame or mounting system that the customer decides to use.

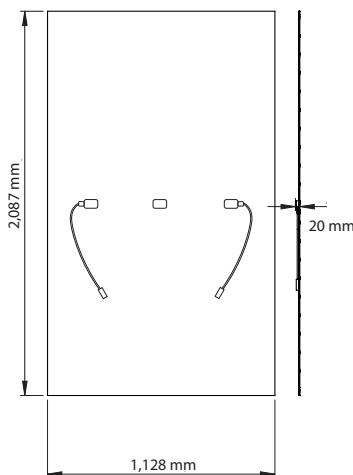
I-V Curve at Various Irradiation Levels



I-V Curve at Various Cell Temperatures



Dimensions



Electrical Specifications @ STC (1,000 W/m², AM 1.5, 25 °C):

Module Type	BBO	520	525	530
Nominal Power	P_{MPP} [W]	520	525	530
Short Circuit Current	I_{SC} [A]	14.3	14.4	14.4
Open Circuit Voltage	V_{OC} [V]	46.4	46.6	46.7
MPP Current	I_{MPP} [A]	13.6	13.7	13.8
MPP Voltage	V_{MPP} [V]	38.5	38.6	38.8
Module Efficiency	η_M [%]	21.9	22.1	22.3
Cell Efficiency	η_C [%]	23.8	24.0	24.2
Power Output Tolerance			0/+5 W	
Maximum System Voltage			1,500 V	
Maximum Reverse Current			25 A	
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} and other electrical parameters are ± 3 %.

Electrical Specifications @ NOCT (800 W/m², AM 1.5, 42 °C, Wind 1 m/s):

Module Type	BBO	520	525	530
Nominal Power	P_{MPP} [W]	398.0	402.0	405.0
Short Circuit Current	I_{SC} [A]	11.53	11.61	11.61
Open Circuit Voltage	V_{OC} [V]	44.4	44.6	44.7
MPP Current	I_{MPP} [A]	10.96	11.04	11.12
MPP Voltage	V_{MPP} [V]	36.4	36.5	36.5

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 \pm 3 °C
Temperature Range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	2,087 x 1,128 x 20 mm
Weight	23.5 kg
Solar Cells	132 Half-Cut 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
Glass	3.2 mm AR coating tempered glass / high-transparency / low-iron content
Certified Test Load (Snow / Wind)	Depending on Laminate fixation system*
Impact Resistance	Hailstone / Φ 25 mm / 83 km/h (51 mph)

*Certification process can be provided by BISOL upon special request. Additional charges may apply.

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	228 x 120 x 136 cm	2 pallets	748 kg	22*

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