

BISOL Laminate

Monocrystalline PV Laminates / BBO 500-510 Wp







Designed & manufactured in EU



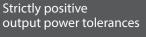
Ideal for integration



Module efficiency up to 21.5 %



+13 %





Module presorting for higher profitability

real-life performance

Up to 13 % higher





Supremely low degradation



Excellent low light performance

Guarantees:

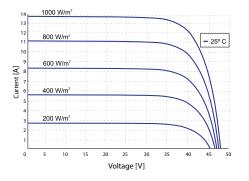


In compliance with:

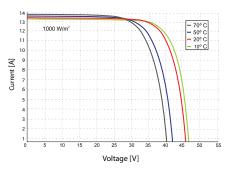


Certificates available upon request. Additional charges may apply. Laminates are manufactured according to IEC 61730 Ed.1 and IEC 61215 Ed.2 standards, but require a certification together with each specific frame or mounting system that the customer decides to use.

I-V Curve at Various Irradiation Levels



I-V Curve at Various **Cell Temperatures**



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

Module Type	BBO	500	510
Nominal Power	P _{MPP} [W]	500	510
Short Circuit Current	<i>I</i> _{SC} [A]	13.1	13.4
Open Circuit Voltage	<i>V_{OC}</i> [V]	48.4	48.5
MPP Current	I _{MPP} [A]	12.4	12.6
MPP Voltage	V _{MPP} [V]	40.4	40.5
Module Efficiency	η _Μ [%]	21.1	21.5
Power Output Tolerance		0/+5 W	
Maximum System Voltage		1,50	00 V
Maximum Reverse Current		25 A	
Protection Class		Class II	

Additional power classes available upon request. I Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. I Tolerances for V_{oc} and I_{sc} and other electrical parameters are ±3 %.

Electrical Specifications @ NOCT (800 W/m², AM 1.5, 43 °C, Wind 1 m/s):

Module Type	BBO	500	510
Nominal Power	<i>P_{MPP}</i> [W]	378	386
Short Circuit Current	I _{SC} [A]	10.57	10.82
Open Circuit Voltage	<i>V_{OC}</i> [V]	46.1	46.2
MPP Current	I _{MPP} [A]	10.01	10.17
MPP Voltage	V _{MPP} [V]	37.8	38.0

Thermal Specifications:

Current Temperature Coefficient	а	+ 0.05 %/°C
Voltage Temperature Coefficient	β	- 0.26 %/°C
Power Temperature Coefficient	γ	- 0.34 %/°C
NOCT		43 ± 2 ℃
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:



30

228 x 120 x 136 cm

2 pallets

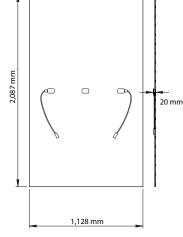
748 kg

22*

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

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Dimensions





www.bisol.com