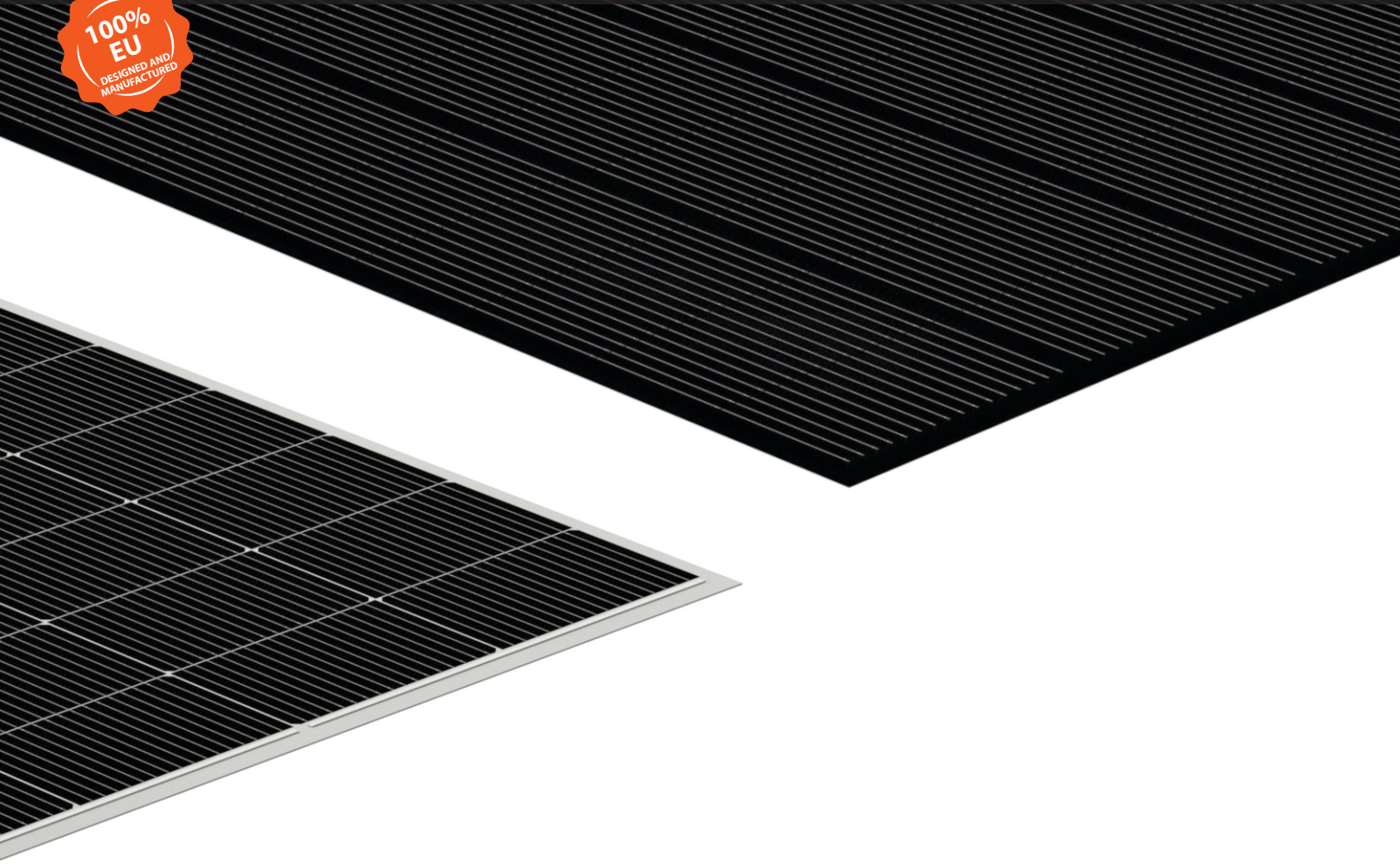


PREMIUM

BISOL Laminate

Monocrystalline PV Laminates / BBO 500-520 Wp



Designed and
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 23.2 %

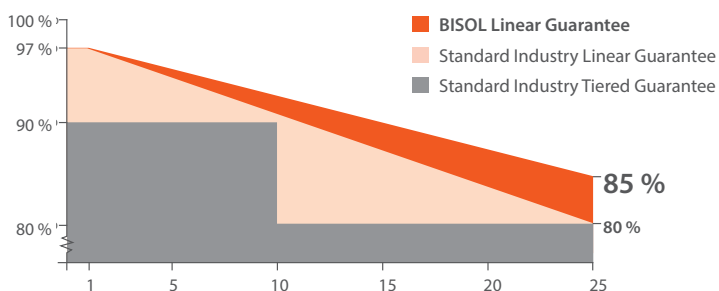


Up to 13 % higher
real-life performance



Excellent low light
performance

Guarantees:



In compliance with:

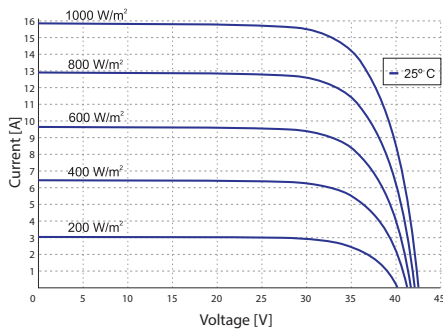


Linear Guarantee
85 % power output
in 25th year

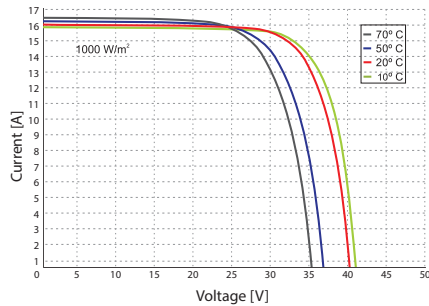


Product Guarantee
Standard: 15 years
Extra: 20 years

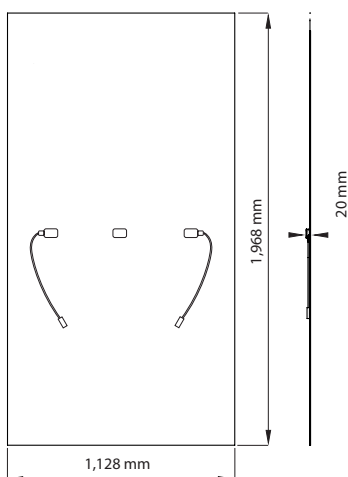
I-V Curve at Various Irradiation Levels



I-V Curve at Various Cell Temperatures



Dimensions



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

| Module Type | BBO | 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 | η_M [%] | 22.3 | 22.8 | 23.2 |
| Cell Efficiency | η_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/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 | 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 | α | + 0.05 %/°C |
| Voltage Temperature Coefficient | β | - 0.25 %/°C |
| Power Temperature Coefficient | γ | - 0.29 %/°C |
| NOCT | | 42 °C (± 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 / 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 35 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 | 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.