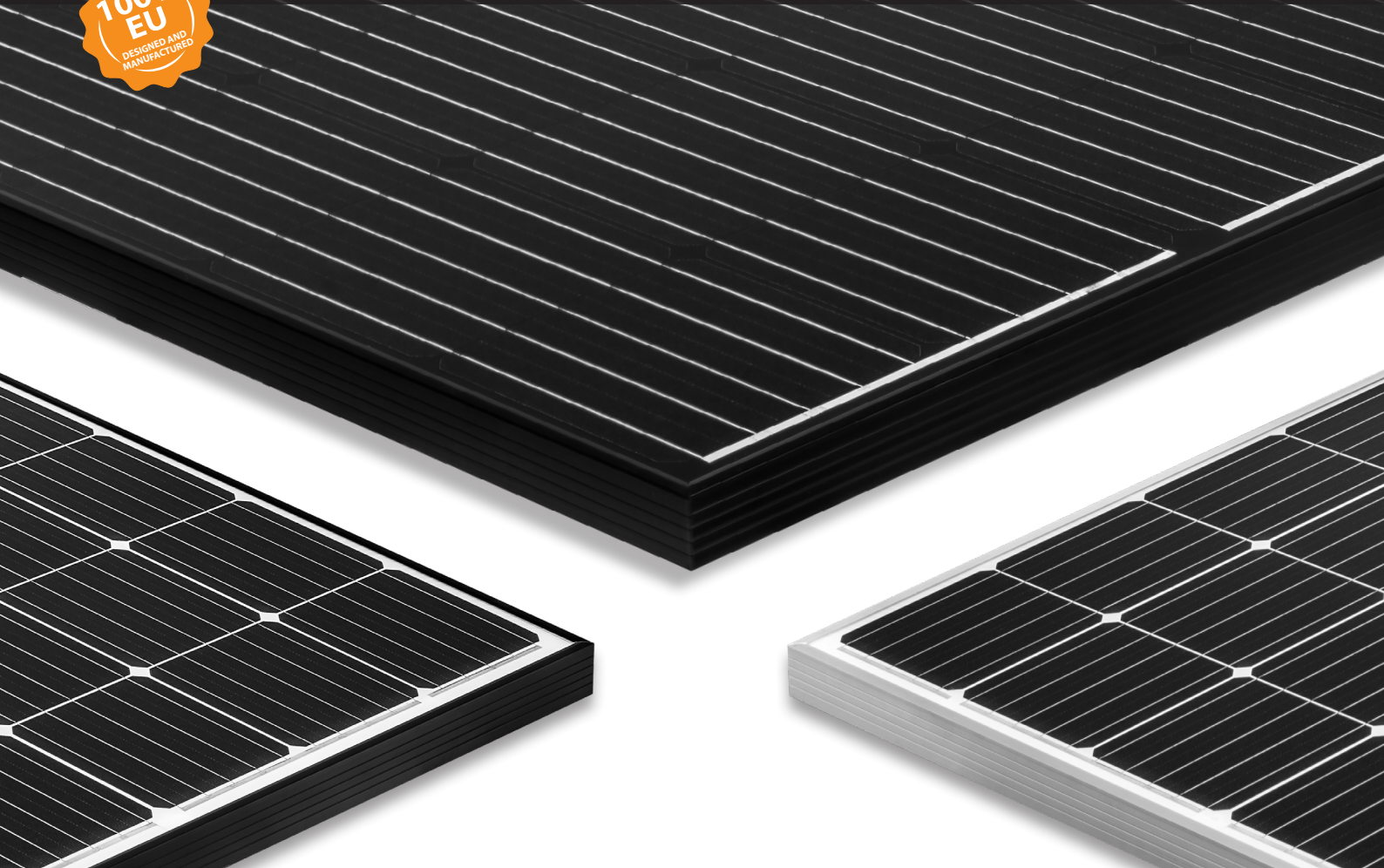


BISOL Premium Series

Monocrystalline PV Modules / BMO 285-315 Wp



Designed & manufactured in EU



Strictly positive output power tolerances



PID free



All relevant certificates



Module presorting for higher profitability



Supremely low degradation



Module efficiency up to 19.3 %

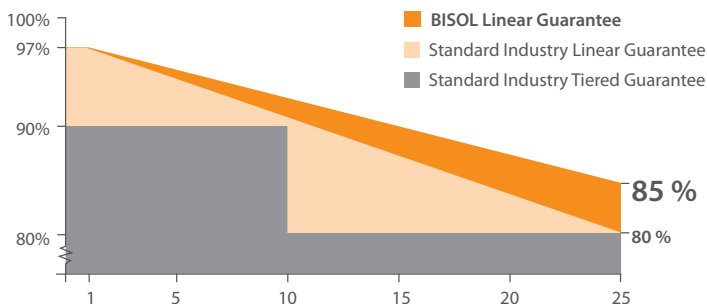


Up to 13 % higher real-life performance



Excellent low light performance

Guarantees:



Linear guarantee
85 % power output in 25th year



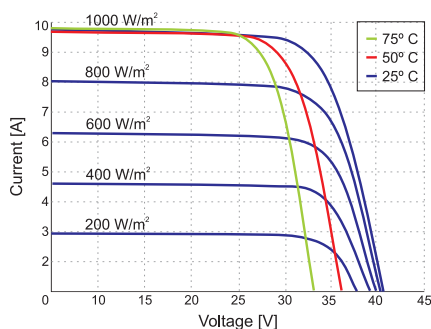
Product guarantee
15 years

In compliance with:

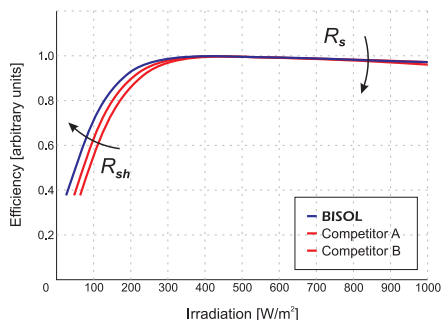


Certificates available upon special request. Additional charges may apply.

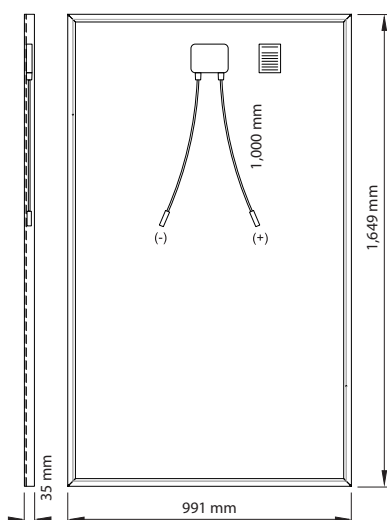
I-V Curve at Various Irradiation Levels and Various Cell Temperatures



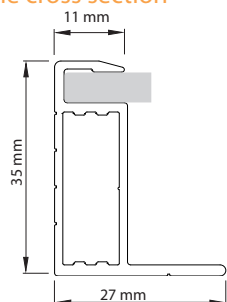
Effective Efficiency



Dimensions



Frame cross section



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

| Module Type | BMO | 285 | 290 | 295 | 300 | 305 | 310 | 315 |
|-------------------------|---------------|-------------------------------|------|------|------|------|-------|-------|
| Nominal Power | P_{MPP} [W] | 285 | 290 | 295 | 300 | 305 | 310 | 315 |
| Short Circuit Current | I_{SC} [A] | 9.50 | 9.60 | 9.75 | 9.90 | 9.95 | 10.05 | 10.15 |
| Open Circuit Voltage | V_{OC} [V] | 40.0 | 40.2 | 40.3 | 40.4 | 40.8 | 41.0 | 41.2 |
| MPP Current | I_{MPP} [A] | 9.10 | 9.20 | 9.35 | 9.50 | 9.60 | 9.75 | 9.85 |
| MPP Voltage | V_{MPP} [V] | 31.3 | 31.5 | 31.6 | 31.6 | 31.8 | 31.8 | 32.0 |
| Solar Cell Efficiency | η_C [%] | 19.4 | 19.8 | 20.1 | 20.5 | 20.8 | 21.1 | 21.5 |
| Module Efficiency | η_M [%] | 17.4 | 17.7 | 18.1 | 18.4 | 18.7 | 19.0 | 19.3 |
| Power Output Tolerance | | 0/+ 5 W | | | | | | |
| Maximum Reverse Current | | 18 A | | | | | | |
| Maximum System Voltage | | 1,000 V (Application Class A) | | | | | | |

Additional power classes available upon request. | Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. | Power measurement tolerance: ± 3 %.

Electrical Specifications @ NOCT (AM1.5, 800 W/m², 20 °C, wind: 1 m/s; Cell Temperature 44 °C):

| Module Type | BMO | 285 | 290 | 295 | 300 | 305 | 310 | 315 |
|-----------------------|---------------|------|------|------|------|------|------|------|
| Nominal Power | P_{MPP} [W] | 211 | 214 | 218 | 222 | 225 | 229 | 233 |
| Short Circuit Current | I_{SC} [A] | 7.69 | 7.77 | 7.89 | 8.01 | 8.05 | 8.13 | 8.21 |
| Open Circuit Voltage | V_{OC} [V] | 36.5 | 36.7 | 36.8 | 36.9 | 37.2 | 37.4 | 37.6 |
| MPP Current | I_{MPP} [A] | 7.37 | 7.45 | 7.57 | 7.69 | 7.77 | 7.90 | 7.98 |
| MPP Voltage | V_{MPP} [V] | 28.6 | 28.8 | 28.8 | 28.8 | 29.0 | 29.0 | 29.2 |

Power measurement tolerance: ± 3 %.

Thermal Specifications:

| | | |
|---------------------------------|----------|-------------------|
| Current Temperature Coefficient | α | + 0.046 %/K |
| Voltage Temperature Coefficient | β | - 0.30 %/K |
| Power Temperature Coefficient | γ | - 0.39 %/K |
| NOCT | | 44 °C |
| Temperature range | | - 40 °C to +85 °C |

Mechanical Specifications:

| | |
|------------------------------------|---|
| Length x Width x Thickness | 1,649 mm x 991 mm x 35 mm |
| Weight | 18.3 kg |
| Solar Cells | 60 mono c-Si in series / 156 mm x 156 mm (6+) |
| Junction Box / Connectors | Three bypass diodes / MC4 compatible / IP 67 |
| Frame | Anodized AL with drainage holes / rigid anchored corners |
| Glass | 3.2 mm glass with anti-reflective coating / tempered / high-transparency / low-iron content |
| Packaging | 30 modules per pallet / stackable 3 pallets high |
| Certified Nominal Load (snow/wind) | 5,400 Pa / 2,400 Pa |
| Impact resistance | Hailstone / Φ 25 mm / 83 km/h (51 mph) |

Tolerances of values are ± 5 %. Unspecified product properties remain under full discretion of BISOL.

Dealer information

www.bisol.com | www.bisol.co.uk



Additional terms & conditions apply. Please see *Standard Limited Guarantee* and *General Sales Terms & Conditions*.

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