BISOL Premium Series

Monocrystalline PV Modules / BMO 285-315 Wp

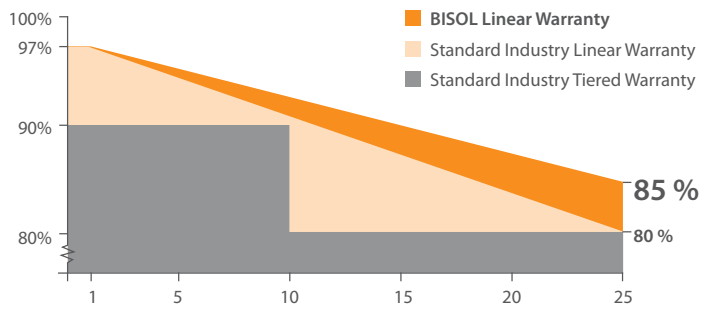
100% EU DESIGNED AND MANUFACTURED

BISOL Solar company!



- Designed & manufactured in EU
- +5W Strictly positive output power tolerances
- PID free
- All relevant certificates
- Module presorting for higher profitability
- 25 yr Supremely low degradation
- 19.3% Module efficiency up to 19.3 %
- +13% Up to 13 % higher real-life performance
- Excellent low light performance

Warranties:



25 Linear warranty
85 % power output in 25th year

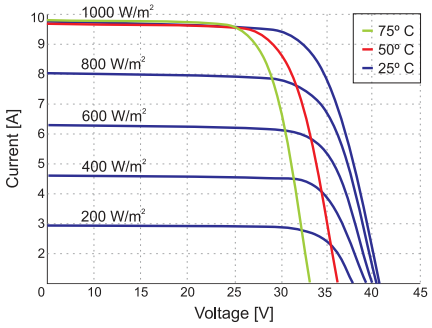
15 Product warranty
15 years

In compliance with:

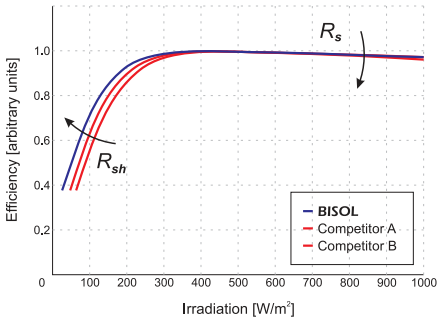
HW3 · CRE3 · European Recycling Platform · CE · ÖVE · IEC 61730 Ed.1 61215 Ed.2 · IEC 62804-1 · IEC 61701 Salt water mist resistance · AIT Austrian Institute of Technology · TÜVRheinland · IEC 62716 Ammonia resistance · ANSI UL 1703 · AS5033 compliant · ISO 9001 ISO 14001 OHSAS 18001 BUREAU VERITAS Certification · ISTITUTO GIORDANO Qualità al Plurale. Fire resistant - Class 1 (UNI 9177) · MCS

Certificates available upon special request. Additional charges may apply.

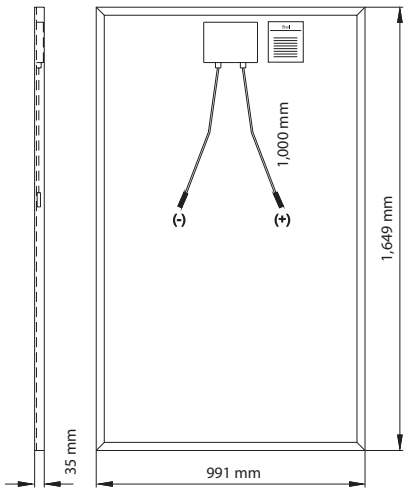
I-V Curve at Various Irradiation Levels and Various Cell Temperatures



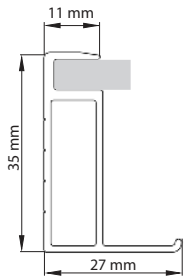
Effective Efficiency



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: 1m/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)

All unspecified tolerances are ±5 %. Unspecified product properties remain under full discretion of BISOL.

BISOL
Solar company!

Dealer information

www.bisol.com I www.bisol.co.uk

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

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