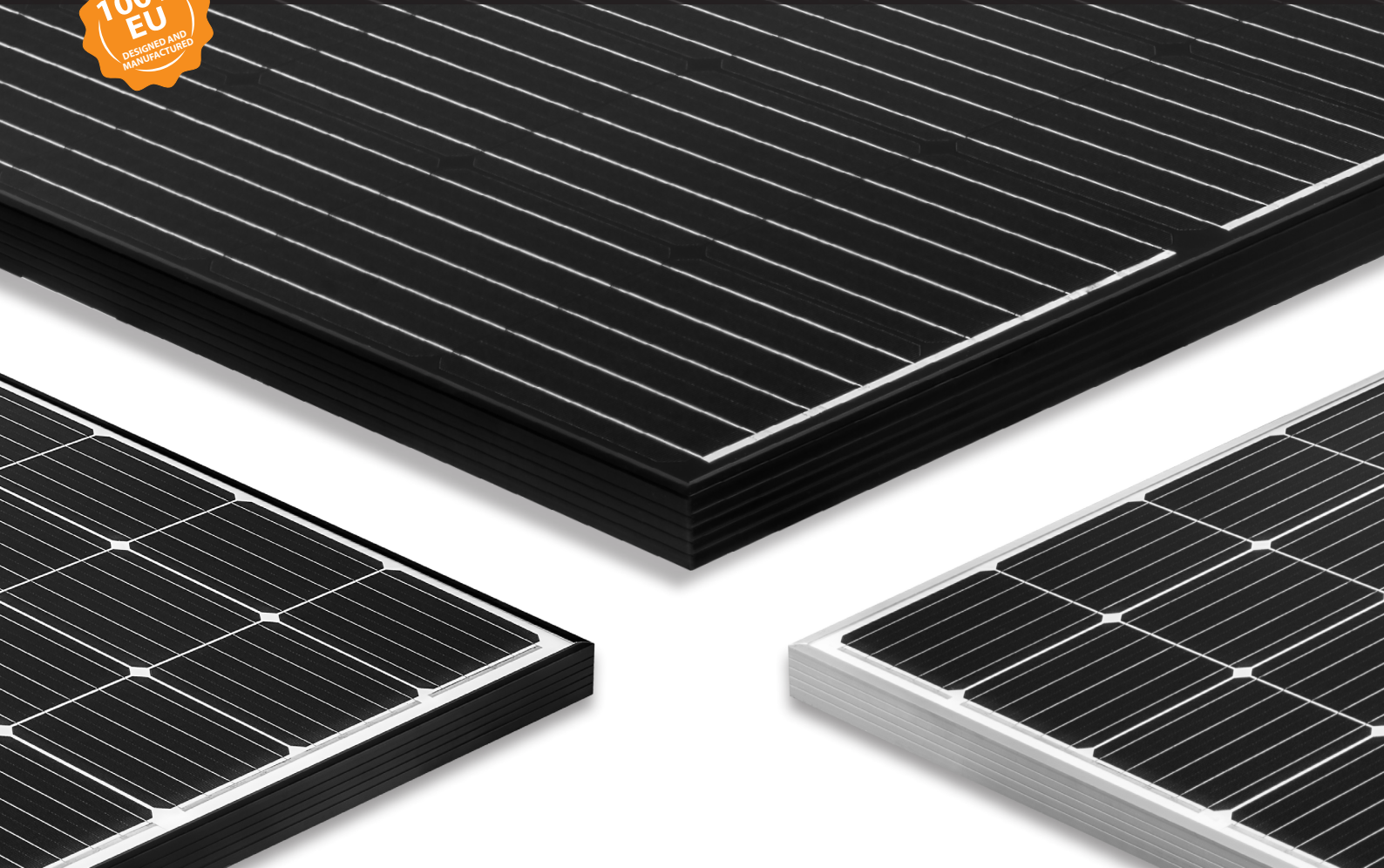


# BISOL Premium Series

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 %

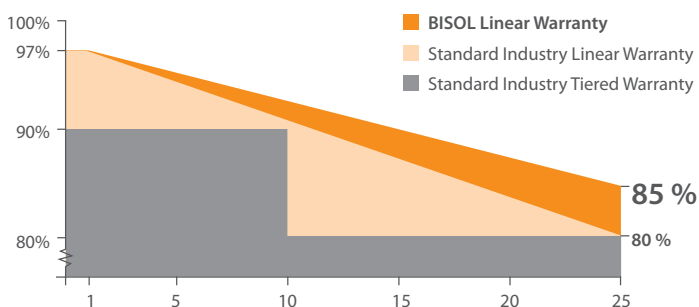


Up to 13 % higher real-life performance



Excellent low light performance

## Warranties:



**25** Linear warranty  
85 % power output in 25<sup>th</sup> year

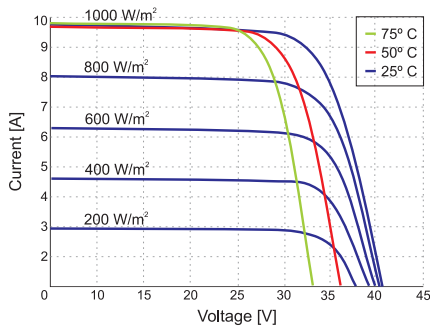
**15** Product warranty  
15 years

## In compliance with:

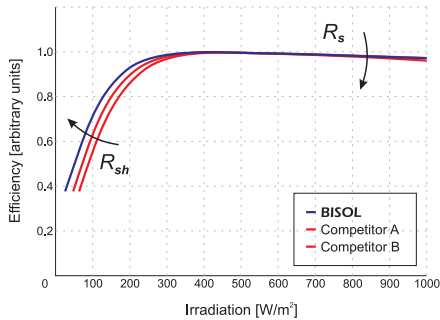


Certificates available upon special request. Additional charges may apply.

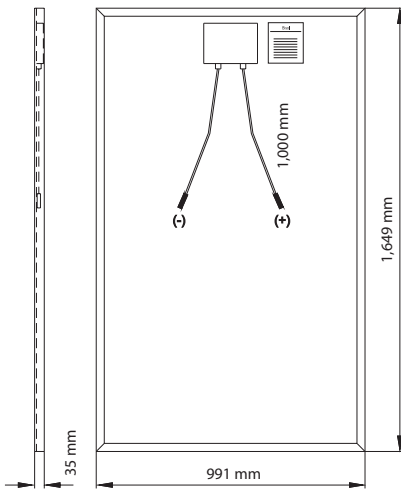
### I-V Curve at Various Irradiation Levels and Various Cell Temperatures



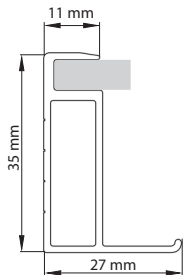
### Effective Efficiency



### 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	$\eta_C$ [%]	19.4	19.8	20.1	20.5	20.8	21.1	21.5
Module Efficiency	$\eta_M$ [%]	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:  $\pm 3$  %.

### 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:  $\pm 3$  %.

### Thermal Specifications:

Current Temperature Coefficient	$\alpha$	+ 0.046 %/K
Voltage Temperature Coefficient	$\beta$	- 0.30 %/K
Power Temperature Coefficient	$\gamma$	- 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 / $\Phi$ 25 mm / 83 km/h (51 mph)

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

### Dealer information

[www.bisol.com](http://www.bisol.com) | [www.bisol.co.uk](http://www.bisol.co.uk)



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

© BISOL Group d.o.o. May 2019. All rights reserved. All information presented in this document is subject to change without prior notice and serve for informative purposes only.