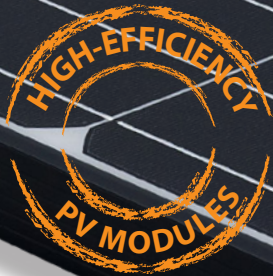


# BISOL PeakPerformance Series

Monocrystalline PV Modules / BMO 285-295 Wp



Made in EU



Anti-reflective glass



High power-to-surface ratio



Improved light absorbance



Strictly positive power output tolerances



Module efficiency up to 18.1%



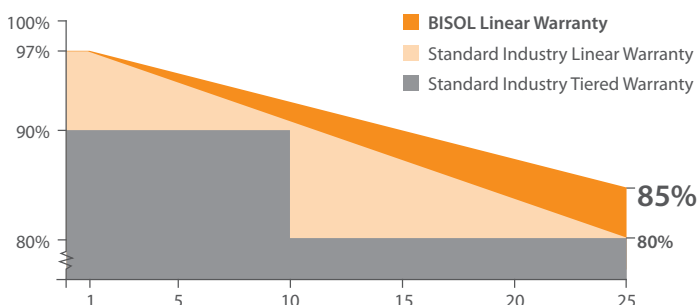
PID free



Extremely low degradation



Excellent performance in low light conditions



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

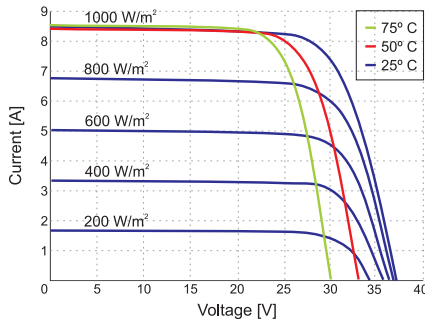


Product warranty  
10 years

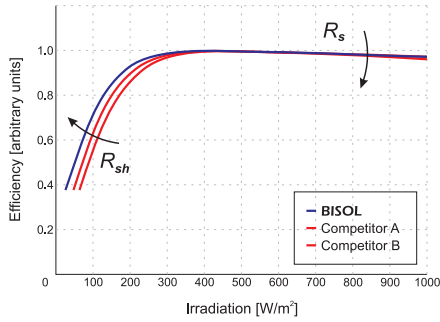
## Certificates:



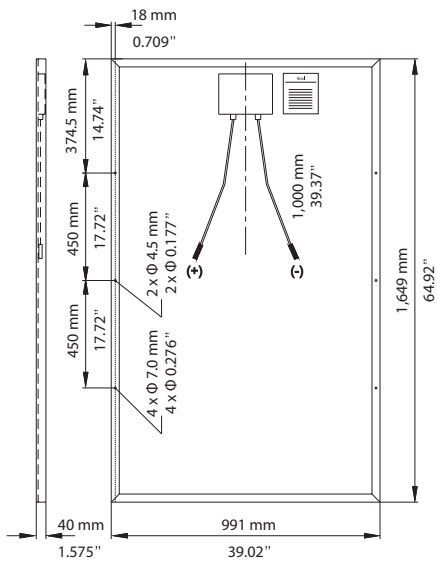
### I-V Curve at Various Irradiation Levels and Various Cell Temperatures



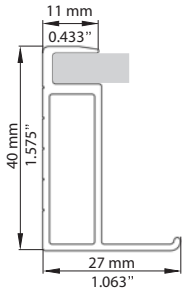
### Effective Efficiency



### Dimensions



### Frame cross section



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

Module Type		BMO-285	BMO-290	BMO-295
Nominal Power	$P_{MPP}$ [W]	285	290	295
Short Circuit Current	$I_{SC}$ [A]	9.50	9.60	9.70
Open Circuit Voltage	$V_{OC}$ [V]	39.1	39.3	39.6
MPP Current	$I_{MPP}$ [A]	9.10	9.20	9.35
MPP Voltage	$V_{MPP}$ [V]	31.3	31.5	31.6
Solar Cell Efficiency	$\eta_C$ [%]	19.9	20.2	20.6
Module Efficiency	$\eta_M$ [%]	17.4	17.7	18.1
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 decreases to 98.8 % of efficiency at STC.

### Electrical Specifications @ NOCT (AM1.5, 800 W/m², Cell Temperature 44 °C):

Module Type		BMO-285	BMO-290	BMO-295
Nominal Power	$P_{MPP}$ [W]	211	214	218
Short Circuit Current	$I_{SC}$ [A]	7.69	7.77	7.85
Open Circuit Voltage	$V_{OC}$ [V]	35.7	35.9	36.1
MPP Current	$I_{MPP}$ [A]	7.37	7.45	7.56
MPP Voltage	$V_{MPP}$ [V]	28.6	28.8	28.8

### Thermal Specifications:

Current Temperature Coefficient	$\alpha$	+ 4.5 mA/°C
Voltage Temperature Coefficient	$\beta$	- 132 mV/°C
Power Temperature Coefficient	$\gamma$	- 0.39 %/°C
NOCT		44 °C
Temperature range		- 40 °C to + 85 °C

### Mechanical Specifications:

Length x Width x Thickness	1,649 mm x 991 mm x 40 mm (64.92" x 39.02" x 1.575")
Weight	18.5 kg (40.79 lbs)
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 / high-transparency / low-iron content
Packaging	16 or 25 modules per pallet / stackable 3 pallets high
Certified Nominal Load	5,400 Pa
Impact resistance	Hailstone / Ø 25 mm / 83 km/h (51 mph)

Dealer Information

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

