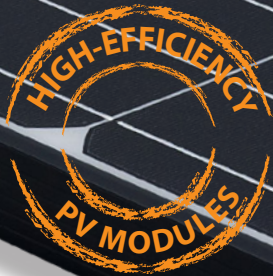


BISOL PeakPerformance Series

Monocrystalline PV Modules / BMO 280-290 Wp



Made in EU



Anti-reflective glass



High power-to-surface ratio



Improved light absorbance



Strictly positive power output tolerances



Module efficiency up to 17.7%



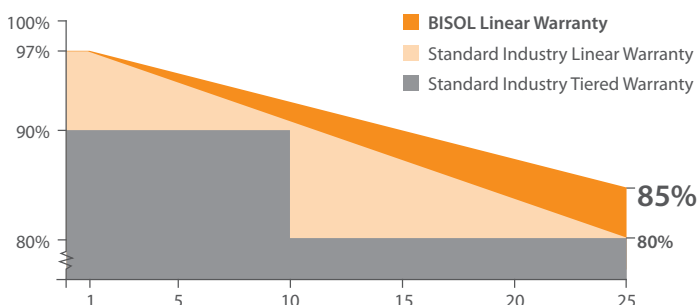
PID free



Extremely low degradation



Excellent performance in low light conditions



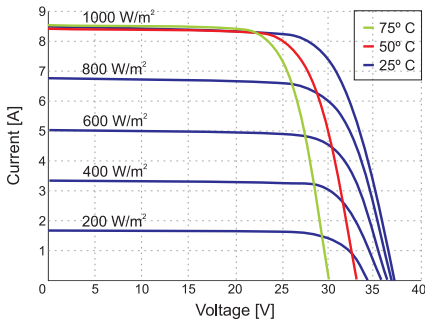
25 Linear warranty
85% power output in 25th year

10 Product warranty
10 years

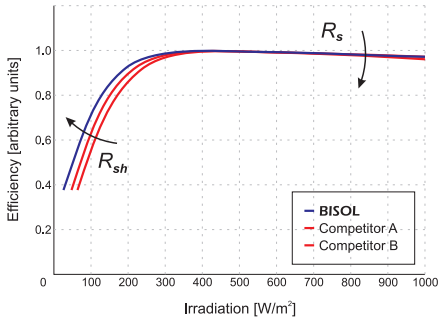
Certificates:



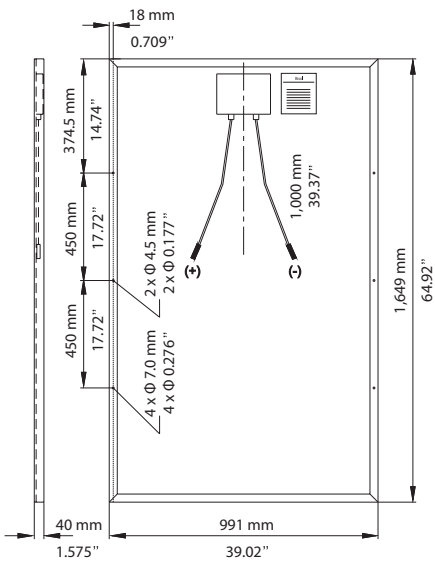
I-V Curve at Various Irradiation Levels and Various Cell Temperatures



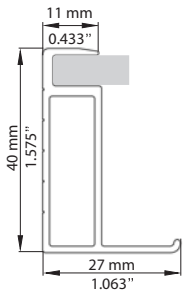
Effective Efficiency



Dimensions



Frame cross section



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

Module Type		BMO-280	BMO-285	BMO-290
Nominal Power	P_{MPP} [W]	280	285	290
Short Circuit Current	I_{SC} [A]	9.35	9.50	9.60
Open Circuit Voltage	V_{OC} [V]	39.0	39.1	39.3
MPP Current	I_{MPP} [A]	9.05	9.10	9.20
MPP Voltage	V_{MPP} [V]	30.9	31.3	31.5
Solar Cell Efficiency	η_C [%]	19.5	19.9	20.2
Module Efficiency	η_M [%]	17.1	17.4	17.7
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-280	BMO-285	BMO-290
Nominal Power	P_{MPP} [W]	207	211	214
Short Circuit Current	I_{SC} [A]	7.57	7.69	7.77
Open Circuit Voltage	V_{OC} [V]	35.6	35.7	35.9
MPP Current	I_{MPP} [A]	7.33	7.37	7.45
MPP Voltage	V_{MPP} [V]	28.2	28.6	28.8

Thermal Specifications:

Current Temperature Coefficient	α	+ 4.5 mA/°C
Voltage Temperature Coefficient	β	- 132 mV/°C
Power Temperature Coefficient	γ	- 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 / Φ 25 mm / 83 km/h (51 mph)

Dealer Information

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

