

# BISOL BIPV Series

Multicrystalline Roof Integrated PV Modules / BSU 275-285 Wp



Designed & Manufactured in EU



Replaces conventional roof tiles



PID free



All relevant certificates



Module presorting for higher profitability



Supremely low degradation



Module efficiency up to 17.4 %

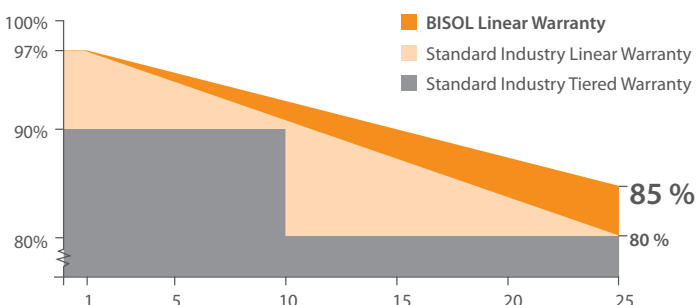


13% higher real-life performance



Excellent low light performance

## Warranties:



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



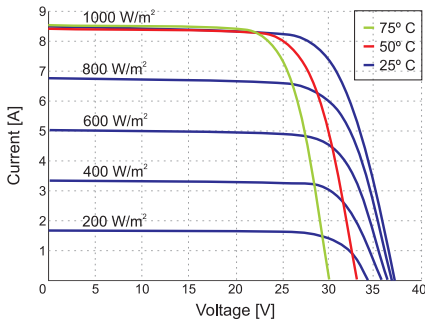
Product warranty 15 years

## In compliance with:

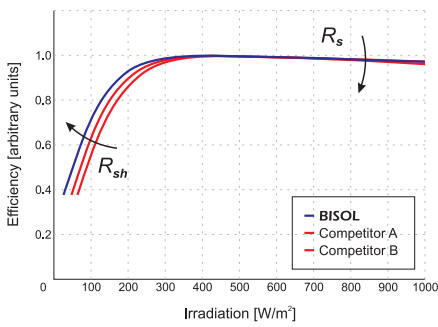


Certificates available upon special request. Additional charges may apply.

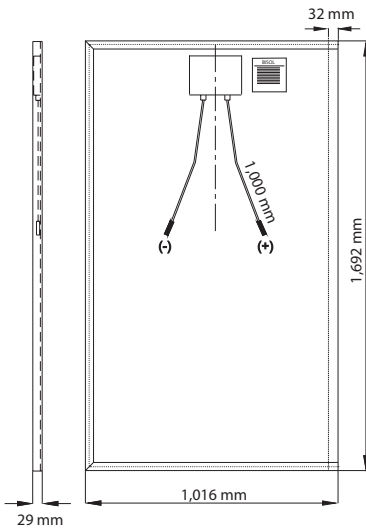
### I-V Curve at Various Irradiation Levels and Various Cell Temperatures



### Effective Efficiency



### Dimensions



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

Module Type	BSU	275	280	285
Nominal Power	$P_{MPP}$ [W]	275	280	285
Short Circuit Current	$I_{SC}$ [A]	9.35	9.50	9.60
Open Circuit Voltage	$V_{OC}$ [V]	39.6	39.7	39.9
MPP Current	$I_{MPP}$ [A]	8.95	9.10	9.20
MPP Voltage	$V_{MPP}$ [V]	30.7	30.8	31.0
Solar Cell Efficiency	$\eta_C$ [%]	18.6	18.9	19.3
Module Efficiency	$\eta_M$ [%]	16.8	17.1	17.4
Power Output Tolerance			±3 %	
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	BSU	275	280	285
Nominal Power	$P_{MPP}$ [W]	203	207	211
Short Circuit Current	$I_{SC}$ [A]	7.57	7.69	7.77
Open Circuit Voltage	$V_{OC}$ [V]	36.1	36.2	36.4
MPP Current	$I_{MPP}$ [A]	7.25	7.37	7.45
MPP Voltage	$V_{MPP}$ [V]	28.0	28.1	28.3

Power measurement tolerance: ±3 %.

### Thermal Specifications:

Current Temperature Coefficient	$\alpha$	+ 0.049 %/K
Voltage Temperature Coefficient	$\beta$	- 0.31 %/K
Power Temperature Coefficient	$\gamma$	- 0.40 %/K
NOCT		44 °C
Temperature range		- 40 °C to + 85 °C

### Mechanical Specifications:

Length x Width x Thickness	1,692 mm x 1,016 mm x 29 mm
Weight	18.4 kg
Solar Cells	60 multi c-Si in series / 156 mm x 156 mm (6+)
Junction Box / Connectors	Three bypass diodes / MC4 compatible / IP 67
Frame	Solrif®
Glass	3.2 mm glass with anti-reflective coating / tempered / high-transparency / low-iron content
Packaging	24 modules per pallet / stackable 2 pallets high
Certified Nominal Load (snow/wind)	2,400 Pa / 2,400 Pa
Impact resistance	Hailstone / $\Phi$ 25 mm / 83 km/h (51 mph)

All unspecified tolerances are ±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*.

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