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Solar Panel Guide

Specification Data Sheet

Learn more at energypal.com/best-solar-panels-for-homes

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 %

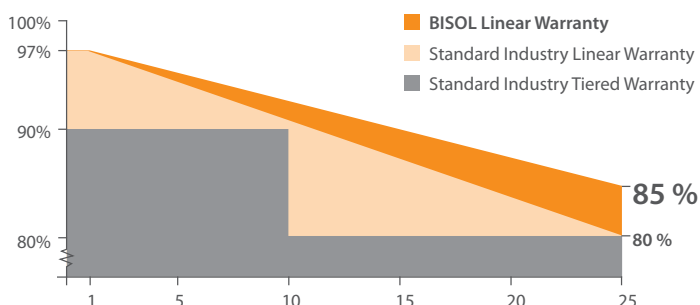


13% higher real-life performance



Excellent low light performance

Warranties:



Linear warranty
85% power output in 25th year



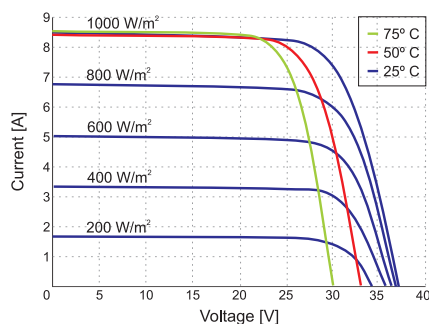
Product warranty
15 years

In compliance with:

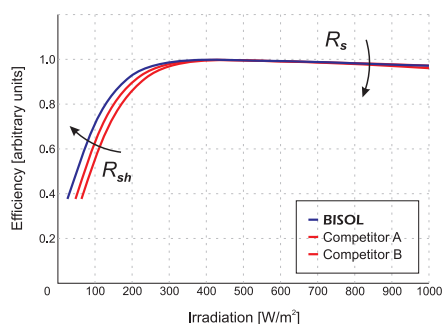


Certificates available upon special request. Additional charges may apply.

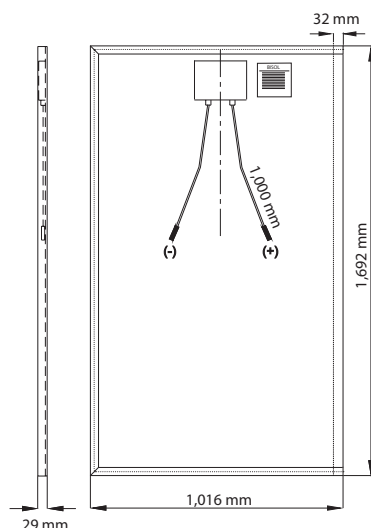
I-V Curve at Various Irradiation Levels and Various Cell Temperatures



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	η_c [%]	18.6	18.9	19.3
Module Efficiency	η_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	α	+ 0.049 %/K
Voltage Temperature Coefficient	β	- 0.31 %/K
Power Temperature Coefficient	γ	- 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 / Φ 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 | www.bisol.co.uk



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

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