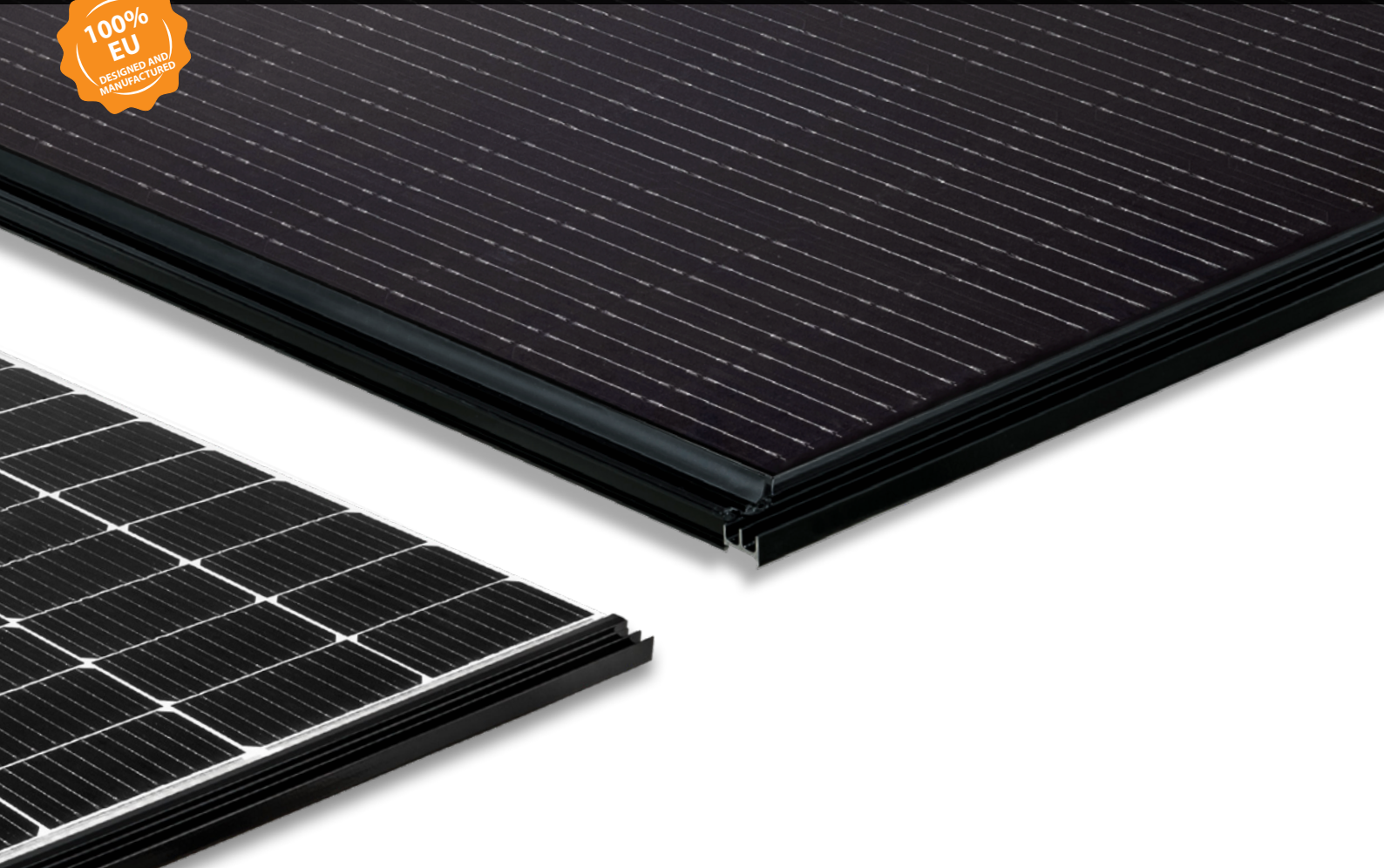


PREMIUM

BISOL BIPV

Monocrystalline Roof Integrated PV Modules / BSO 400-420 Wp



Designed and manufactured in EU



Replaces conventional roof tiles



PID free



Limited shading



Module presorting for higher profitability



Supremely low degradation



Module efficiency up to 21.5 %

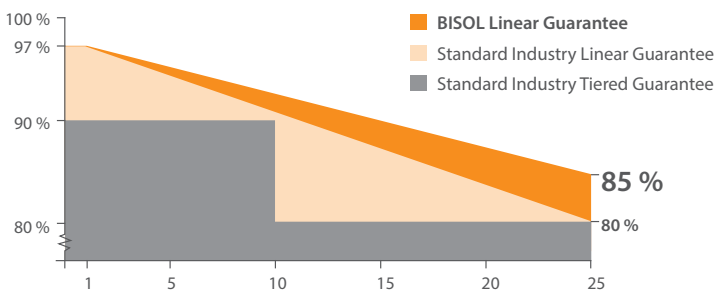


Up to 13 % higher real-life performance



Excellent low light performance

Guarantees:



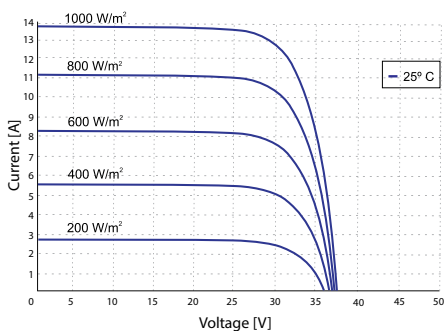
25 Linear Guarantee
85 % power output in 25th year

Up to 20 Product Guarantee
Standard: 15 years
Extra: 20 years

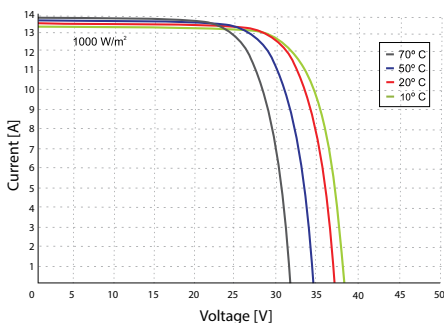
In compliance with:



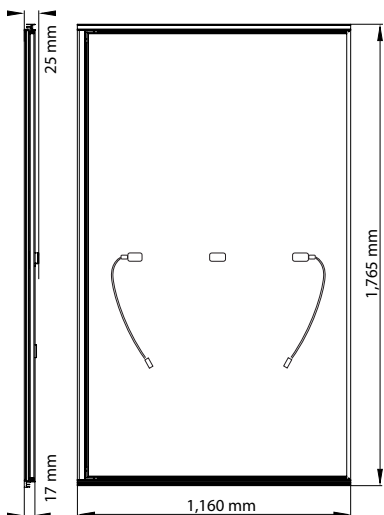
I-V Curve at Various Irradiation Levels



I-V Curve at Various Cell Temperatures



Dimensions



Electrical Specifications @ STC (AM 1.5, 1,000 W/m², 25 °C):

Module Type	BSO	400	410	420
Nominal Power	P_{MPP} [W]	400	410	420
Short Circuit Current	I_{SC} [A]	13.0	13.3	13.7
Open Circuit Voltage	V_{OC} [V]	39.5	39.6	39.7
MPP Current	I_{MPP} [A]	12.3	12.5	12.8
MPP Voltage	V_{MPP} [V]	32.6	32.8	32.9
Module Efficiency	η_M [%]	20.5	21.0	21.5
Power Output Tolerance			0/+5 W	
Maximum System Voltage			1,500 V	
Maximum Reverse Current			25 A	
Protection Class			Class II	

Additional power classes available upon request. | Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. | Tolerances for V_{OC} and I_{SC} and other electrical parameters are ± 3 %.

Electrical Specifications @ NOCT (800 W/m², 43 °C, AM 1.5, Wind 1 m/s):

Module Type	BSO	400	410	420
Nominal Power	P_{MPP} [W]	303	310	318
Short Circuit Current	I_{SC} [A]	10.49	10.74	11.06
Open Circuit Voltage	V_{OC} [V]	37.7	37.7	37.8
MPP Current	I_{MPP} [A]	9.93	10.09	10.33
MPP Voltage	V_{MPP} [V]	30.6	30.8	30.8

Thermal Specifications:

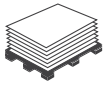
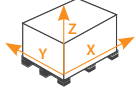



Current Temperature Coefficient	α	+ 0.05 %/°C
Voltage Temperature Coefficient	β	- 0.26 %/°C
Power Temperature Coefficient	γ	- 0.34 %/°C
NOCT		43 \pm 2 °C
Temperature Range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	1,765 x 1,160 x 25 mm
Weight	22.5 kg
Solar Cells	108 Half-Cut c-Si / 182 mm x 91 mm
Junction Box / Connectors / IP	3 bypass diodes / MC4 compatible / IP 68
Cable Length	Default: 1,200 mm
Frame	Solrif® / thickness: 17 mm
Glass	3.2 mm AR coating tempered glass / high-transparency / low-iron content
Impact Resistance	Hailstone / Φ 25 mm / 83 km/h (51 mph)

Tolerances of values are ± 5 %. Unspecified product properties remain under full discretion of BISOL Production.

Packaging Information:

				
Modules per Pallet	Packaging Dimension: Length/Width/Height	Stackable	Packaging Weight	Tot. Nr. of Pallets/Load
24	191 x 120 x 136 cm	2 pallets	580 kg	28

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

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