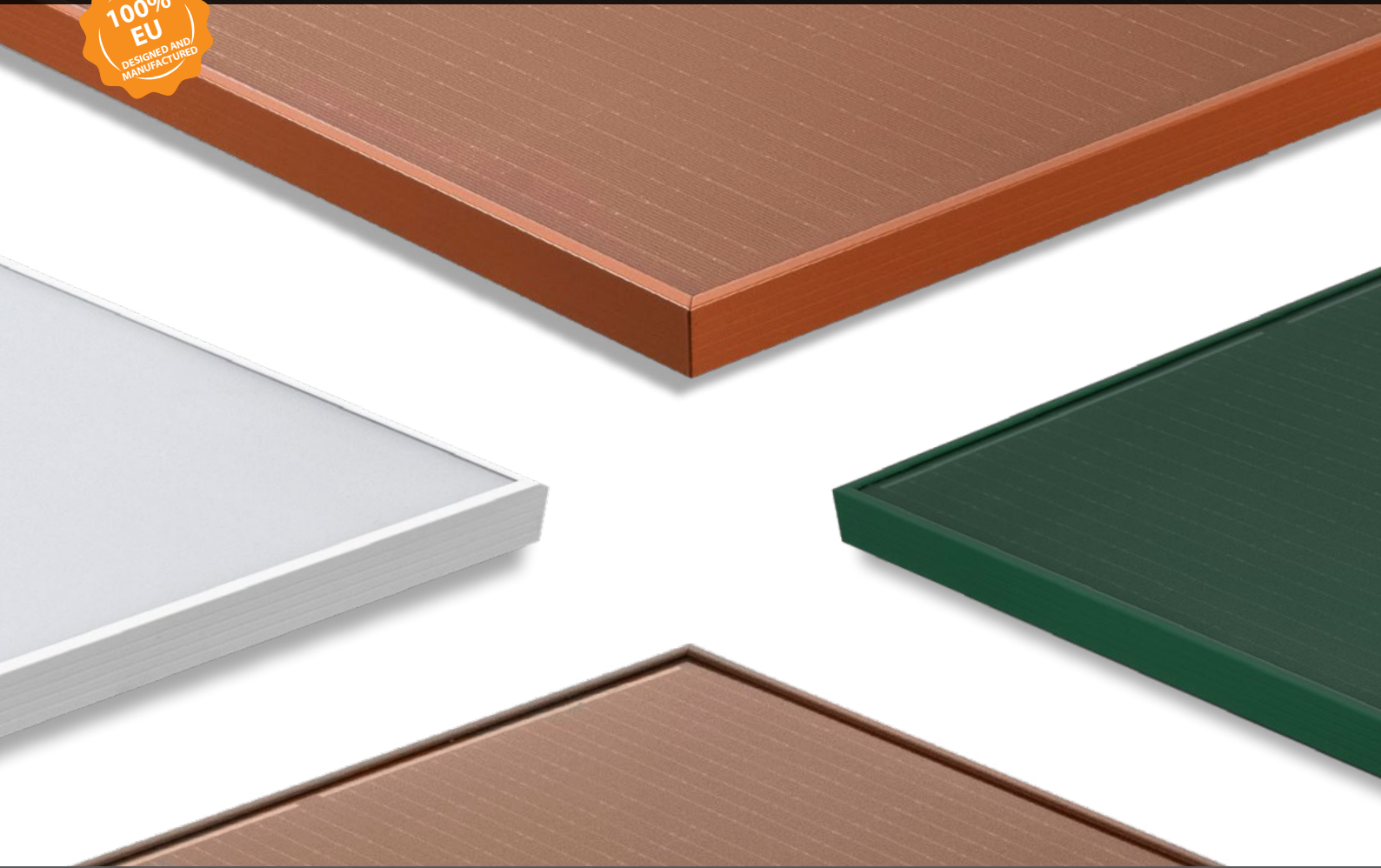


PREMIUM

BISOL Spectrum

Monocrystalline PV Modules With Coloured Encapsulant



Designed & manufactured in EU



Double insulation



On-roof or BIPV



PID free



Module presorting for higher profitability



Supremely low degradation



A perfect colour match to your roof

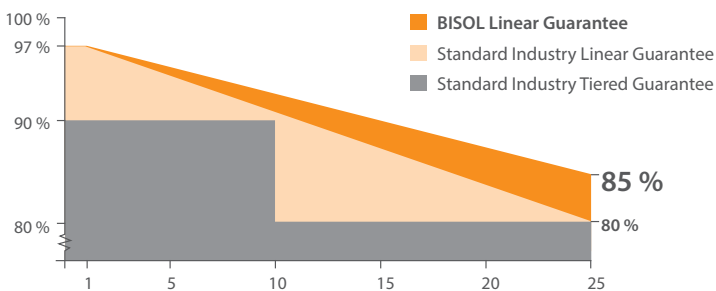


Available in variety of colours



Excellent low light performance

Guarantees:



Linear Guarantee
85% power output in 25th year



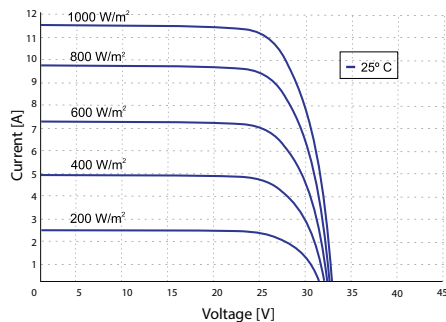
Product Guarantee
Standard: 15 years
Extra: 20 years

In compliance with:

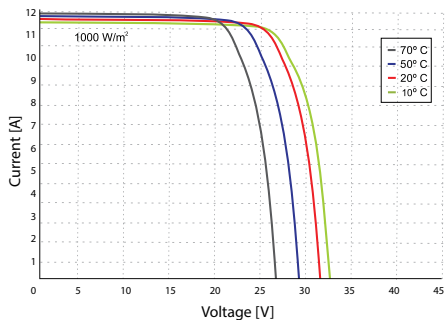


Certificates available upon special request. Additional charges may apply.

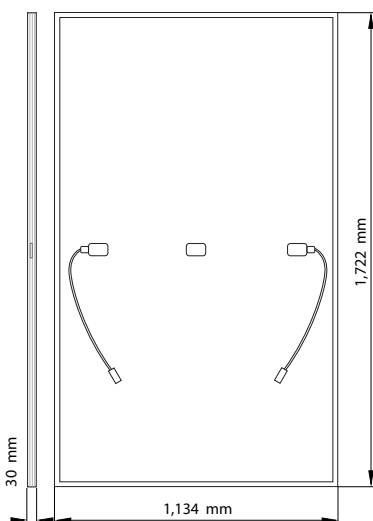
I-V Curve at Various Irradiation Levels



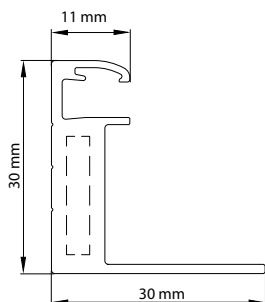
I-V Curve at Various Cell Temperatures



Dimensions



Frame Cross Section



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



Module Type	BDO	400	430	340
Nominal Power	P_{MPP} [W]	400	430	340
Short Circuit Current	I_{SC} [A]	12.3	13.7	10.4
Open Circuit Voltage	V_{OC} [V]	39.8	39.5	39.8
MPP Current	I_{MPP} [A]	11.9	13.4	10.1
MPP Voltage	V_{MPP} [V]	33.7	32.2	33.7
Module Efficiency	η_M [%]	20.5	22.0	17.4
Cell Efficiency	η_C [%]	22.4	24.0	19.0
Power Output Tolerance			±3 %	
Maximum Reverse Current			20 A	
Maximum System Voltage			1,500 V	
Protection Class			Class II	

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 %.

The actual colour shades may vary from the images shown. Colour inconsistencies in a module may appear due to the nature of this product.

Electrical Specifications @ NOCT (800 W/m², 42 °C, AM 1.5, Wind 1m/s):

Module Type	BDO	400	430	340
Nominal Power	P_{MPP} [W]	306.0	329.0	260.0
Short Circuit Current	I_{SC} [A]	9.92	11.04	8.38
Open Circuit Voltage	V_{OC} [V]	38.1	37.8	38.1
MPP Current	I_{MPP} [A]	9.59	10.80	8.14
MPP Voltage	V_{MPP} [V]	31.9	30.5	32.0

Thermal Specifications:

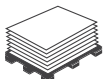
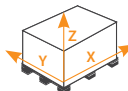



Current Temperature Coefficient	α	+ 0,045 %/°C
Voltage Temperature Coefficient	β	- 0,250 %/°C
Power Temperature Coefficient	γ	- 0,300 %/°C
NOCT		42 ± 3 °C
Temperature Range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	1,722 x 1,134 x 30 mm
Weight	22 kg
Solar Cells	108 Half-Cut c-Si / 182 x 91 mm
Junction Box / Connectors / IP	3 bypass diodes / MC4 compatible / IP 68
Cable Length	Default: 1,200 mm On demand (for portrait orientation): 300 mm
Frame	Anodized Al with drainage holes / rigid anchored corners
Backsheet Colour	Black
Glass	3.2 mm AR coating tempered glass / high-transparency / low-iron content
Certified Test Load (Snow/Wind)	5,400 Pa / 2,400 Pa
Impact Resistance	Hailstone / Ø 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
35	175 x 116 x 128 cm	3 pallets	794 kg	30

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

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