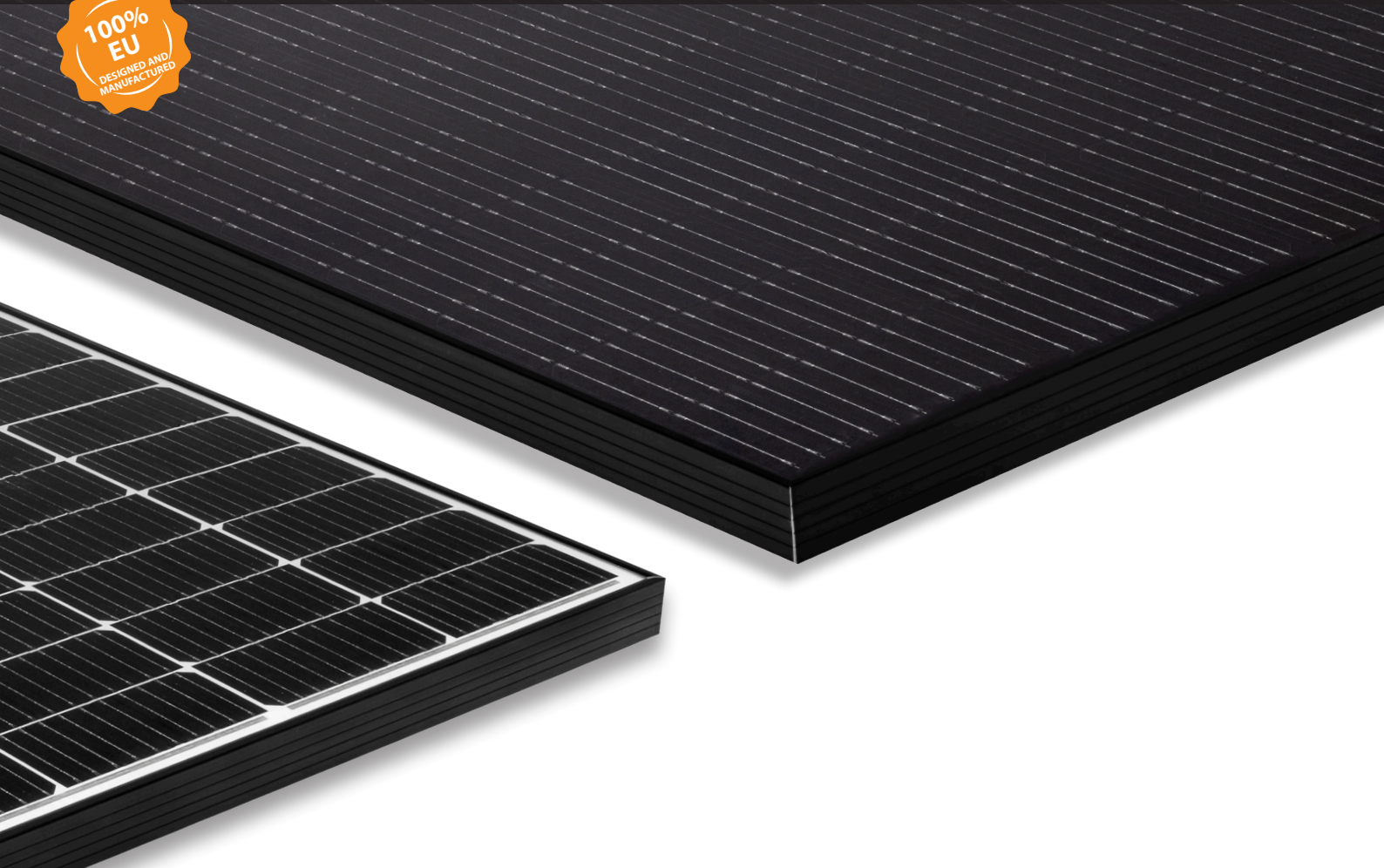


PREMIUM

BISOL Duplex Deflect Pro

Monocrystalline Half-Cut PV Modules (108 Cells) / BDO 400-420 Wp



Designed and manufactured in EU



Higher power



Lower losses



All relevant certificates



Limited shading



Module presorting for higher profitability



Module efficiency up to 21.5 %

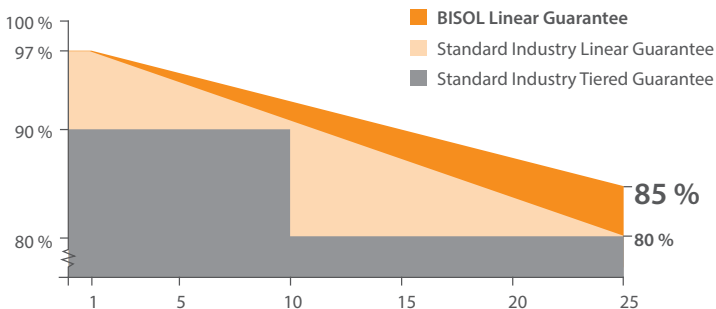


Strictly positive output power tolerances



Excellent low light performance

Guarantees:



Linear Guarantee
85% power output in 25th year



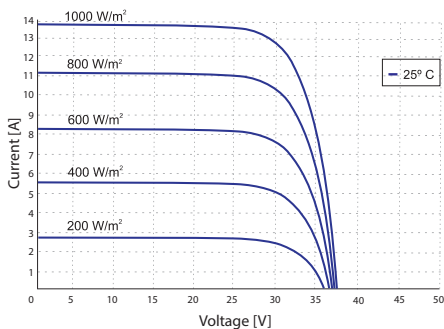
Product Guarantee
15 years

In compliance with:

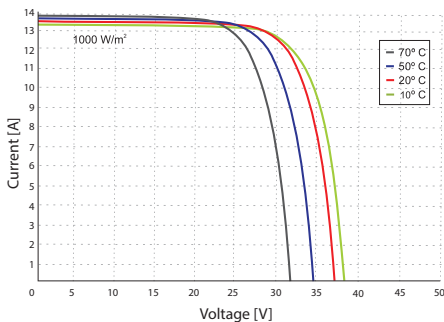


Certificates available upon special request. Additional charges may apply.

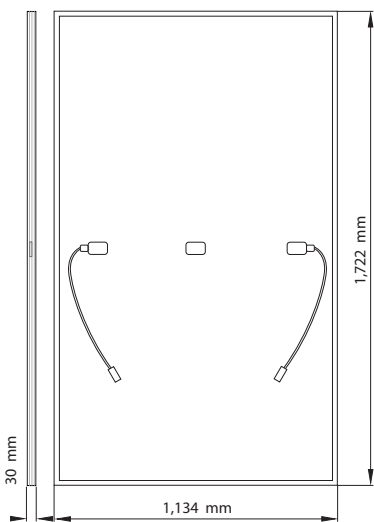
I-V Curve at Various Irradiation Levels



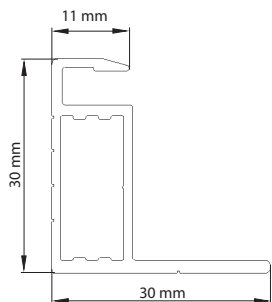
I-V Curve at Various Cell Temperatures



Dimensions



Frame Cross Section



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

Module Type	BDO	400	410	420
Nominal Power	P_{MPP} [W]	400	410	420
Short Circuit Current	I_{SC} [A]	13.74	13.90	14.06
Open Circuit Voltage	V_{OC} [V]	37.0	37.2	37.4
MPP Current	I_{MPP} [A]	12.95	13.19	13.42
MPP Voltage	V_{MPP} [V]	30.9	31.1	31.3
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 (AM 1.5, 800 W/m², 43 °C, Wind 1 m/s):

Module Type	BDO	400	410	420
Nominal Power	P_{MPP} [W]	303	311	318
Short Circuit Current	I_{SC} [A]	11.09	11.22	11.35
Open Circuit Voltage	V_{OC} [V]	35.3	35.5	35.6
MPP Current	I_{MPP} [A]	10.45	10.65	10.83
MPP Voltage	V_{MPP} [V]	29.0	29.3	29.4

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

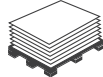
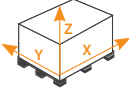



Mechanical Specifications:

Length x Width x Thickness	1,722 x 1,134 x 30 mm
Weight	22 kg
Solar Cells	108 Half-Cut mono PERC 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
Glass	3.2 mm thick anti-glare glass / DeflectPro / Luminance below 9,200 cd/m ² *
Certified Test Load (Snow/Wind)	5,400 Pa / 2,400 Pa
Impact Resistance	Hailstone / Φ 25 mm / 83 km/h (51 mph)

*Data provided by the manufacturer for informational purposes only.

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