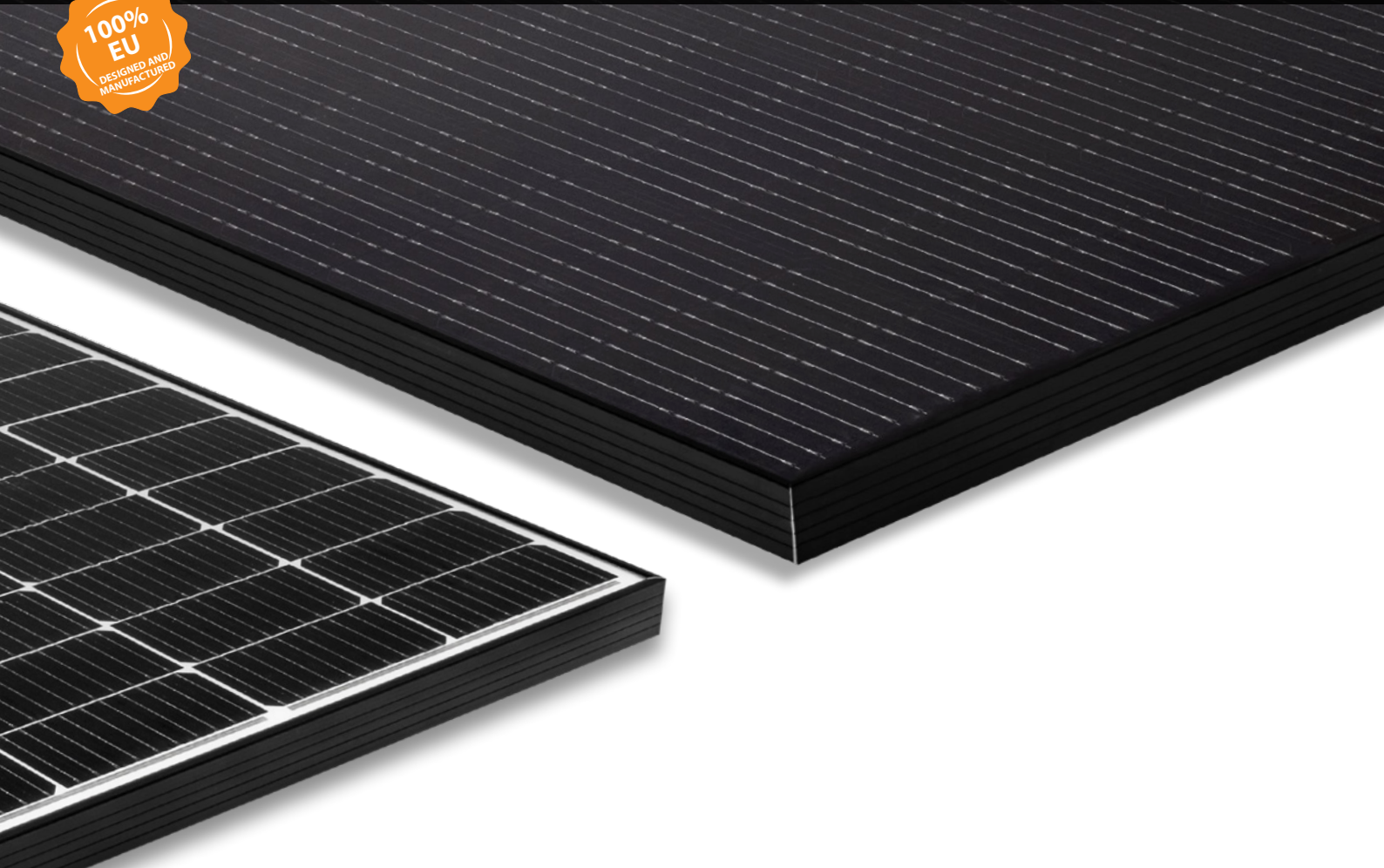


PREMIUM

BISOL Duplex

Monocrystalline Half-Cut PV Modules (108 Cells) / BDO 400-415 Wp



Designed and manufactured in EU



Higher power



Lower losses



All relevant certificates



Limited shading



Module presorting for higher profitability



Module efficiency up to 21.3 %

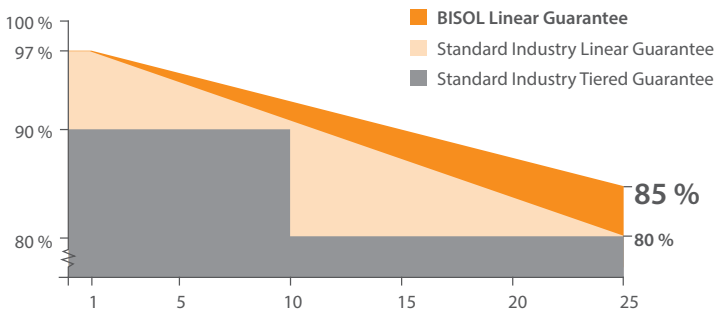


Strictly positive output power tolerances



Excellent low light performance

Guarantees:



25 Linear Guarantee
85 % power output in 25th year

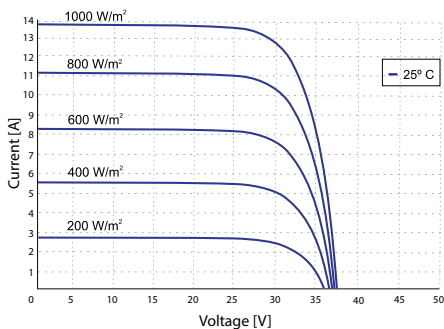
15 Product Guarantee
15 years

In compliance with:

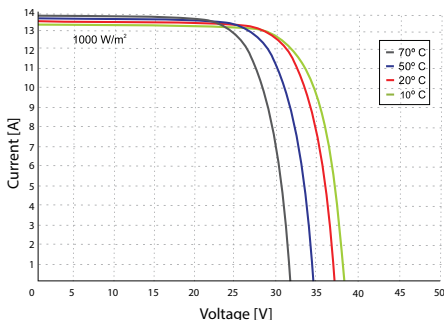


Certificates available upon special request. Additional charges may apply.

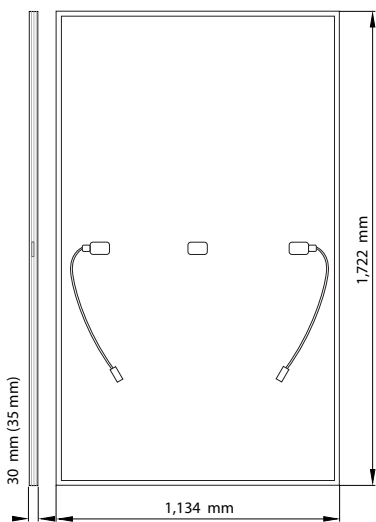
I-V Curve at Various Irradiation Levels



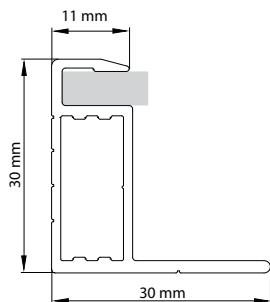
I-V Curve at Various Cell Temperatures



Dimensions



Frame Cross Section



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

Module Type	BDO	400	405	410	415
Nominal Power	P_{MPP} [W]	400	405	410	415
Short Circuit Current	I_{SC} [A]	13.74	13.82	13.90	13.98
Open Circuit Voltage	V_{OC} [V]	37.0	37.1	37.2	37.3
MPP Current	I_{MPP} [A]	12.94	13.06	13.18	13.30
MPP Voltage	V_{MPP} [V]	30.9	31.0	31.1	31.2
Module Efficiency	η_M [%]	20.5	20.7	21.0	21.3
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} are 3 %.

Electrical Specifications @ NMOT (800 W/m², 20 °C, AM 1.5, Wind 1 m/s):

Module Type	BDO	400	405	410	415
Nominal Power	P_{MPP} [W]	325.4	329.5	333.6	337.6
Short Circuit Current	I_{SC} [A]	10.96	11.02	11.09	11.16
Open Circuit Voltage	V_{OC} [V]	37.48	37.58	37.68	37.78
MPP Current	I_{MPP} [A]	10.33	10.43	10.52	10.61
MPP Voltage	V_{MPP} [V]	31.5	31.6	31.7	31.8

Thermal Specifications:

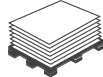
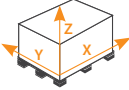



Current Temperature Coefficient	α	+ 0.05 %/°C
Voltage Temperature Coefficient	β	- 0.26 %/°C
Power Temperature Coefficient	γ	- 0.34 %/°C
NOCT		43 ± 2 °C
Temperature Range		- 40 °C to + 85 °C

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 182 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 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 115,5 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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