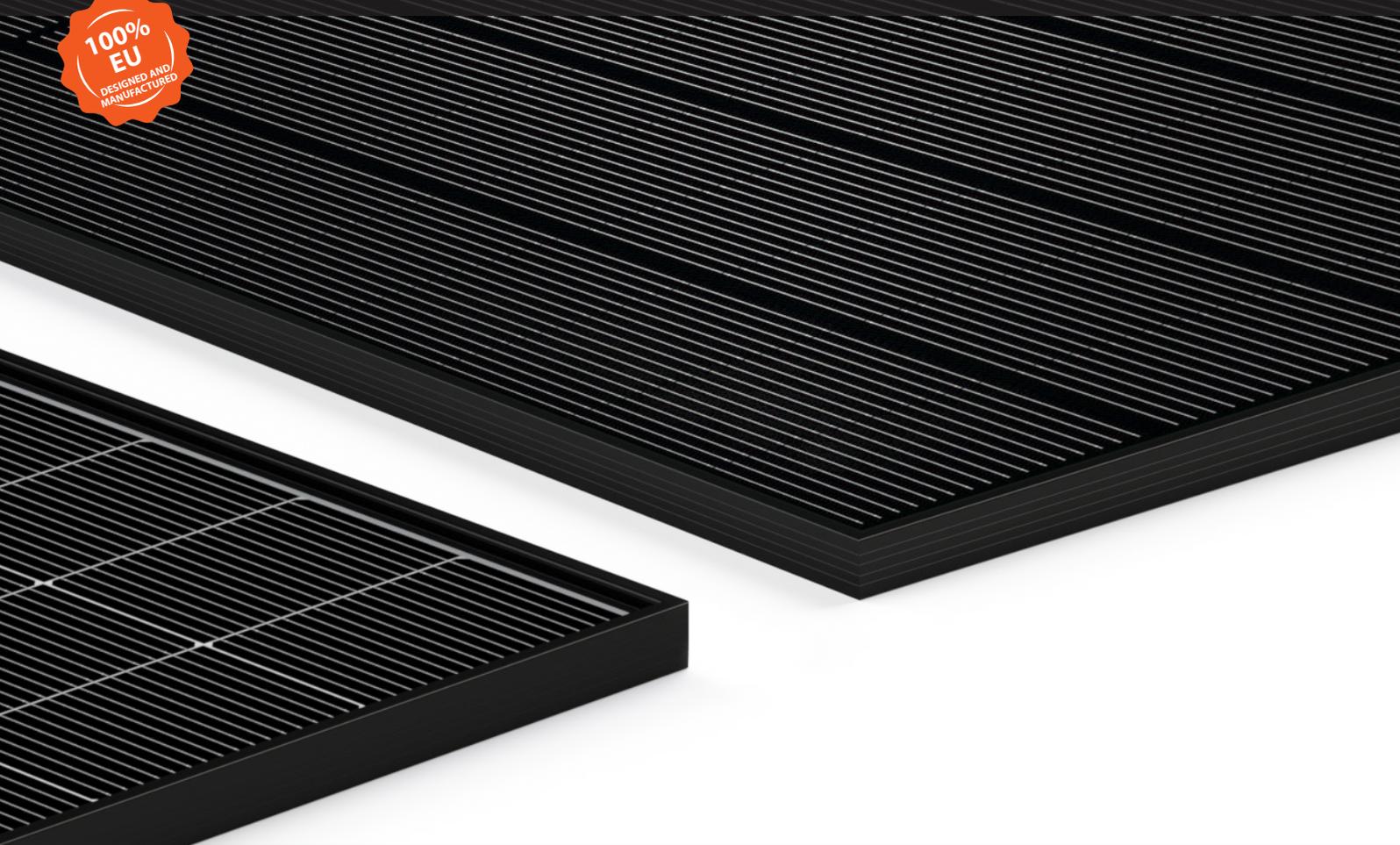


PREMIUM

# BISOL® Duplex Deflect

Monocrystalline Half-Cut PV Modules (108 Cells) / BBO 500-520 Wp



Made in Europe



30 years of EU Guarantee



Hail and Fire resistant



Uncompromisingly certified



7.000 Pa Snow load



PID and LETID free



Highest Efficiency

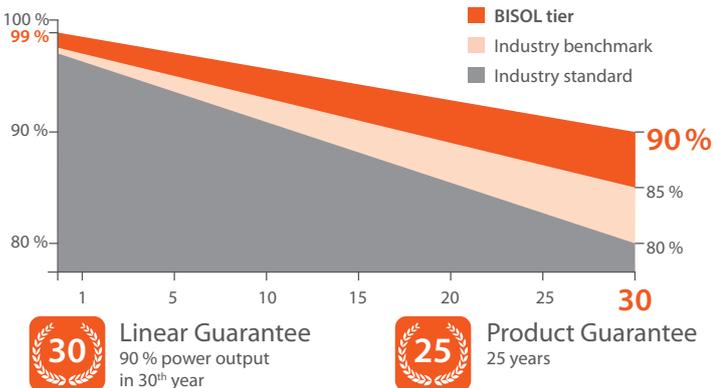


Module sorting technology



Low maintenance costs

## Guarantee:

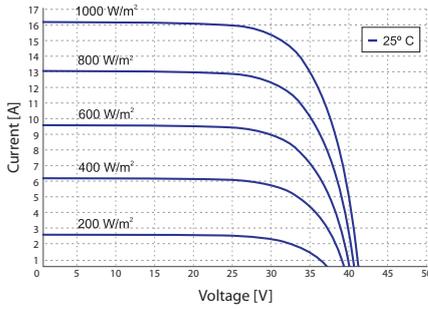


## In compliance with:

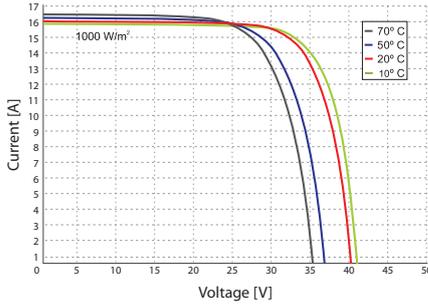


Certificates available upon request. Additional charges may apply.

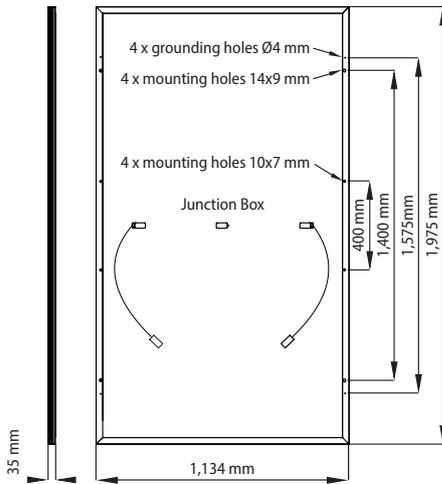
### I-V Curve at Various Irradiation Levels



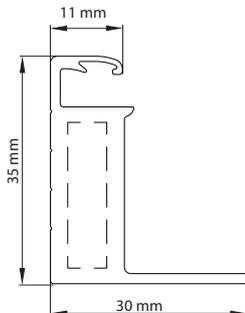
### I-V Curve at Various Cell Temperatures



### Dimensions



### Frame Cross Section



### Electrical Specifications @ STC (1,000 W/m<sup>2</sup>, AM 1.5, 25 °C):

Module Type	BBO	500	510	520
Nominal Power	$P_{MPP}$ [W]	500	510	520
Short Circuit Current	$I_{SC}$ [A]	16.0	16.1	16.2
Open Circuit Voltage	$V_{OC}$ [V]	39.6	40.0	40.6
MPP Current	$I_{MPP}$ [A]	15.0	15.2	15.4
MPP Voltage	$V_{MPP}$ [V]	33.3	33.6	33.8
Module Efficiency	$\eta_M$ [%]	22.3	22.8	23.2
Cell Efficiency	$\eta_C$ [%]	24.2	24.7	25.2
Power Output Tolerance			0/+5 W	
Maximum System Voltage			1,500 V	
Maximum Reverse Current			30 A	
Protection Class			Class II	

Additional power classes available upon request. | Efficiency at irradiation 200 W/m<sup>2</sup>: 99.3 % of STC efficiency or higher. | Tolerances for  $V_{OC}$  and  $I_{SC}$  and other electrical parameters are  $\pm 3$  %.

### Electrical Specifications @ NOCT (800 W/m<sup>2</sup>, AM 1.5, 42 °C, Wind 1 m/s):

Module Type	BBO	500	510	520
Nominal Power	$P_{MPP}$ [W]	384	391	399
Short Circuit Current	$I_{SC}$ [A]	12.9	13.0	13.1
Open Circuit Voltage	$V_{OC}$ [V]	37.9	38.3	38.9
MPP Current	$I_{MPP}$ [A]	12.1	12.3	12.4
MPP Voltage	$V_{MPP}$ [V]	31.7	31.9	32.1

### Thermal Specifications:

Current Temperature Coefficient	$\alpha$	+ 0.05 %/°C
Voltage Temperature Coefficient	$\beta$	- 0.25 %/°C
Power Temperature Coefficient	$\gamma$	- 0.29 %/°C
NOCT		42 °C ( $\pm 3$ °C)
Temperature Range		- 40 °C to + 85 °C

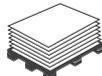
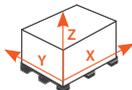
### Mechanical Specifications:

Length x Width x Thickness	1,975 x 1,134 x 35 mm
Weight	23.5 kg
Solar Cells	108 Half-Cut c-Si / 182.25 x 105 mm
Junction Box / Connectors / IP	3 bypass diodes / MC4 compatible; On demand: MC4 EVO2 / IP 68
Cable Length	Default: 1,200 mm On demand (for portrait orientation): 300 mm
Frame	Anodized Al with mounting and drainage holes / rigid anchored corners.
Glass	3.2 mm thick anti-glare glass / Deflect / Luminance below 13.100cd/m <sup>2*</sup>
Certified Test Load (Snow/Wind)	7,000 Pa / 2,400 Pa
Impact Resistance	Hailstone / $\Phi$ 40 mm / 99.1 km/h (61.6 mph)

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

\*Data provided by the manufacturer for informational purposes only.

### Packaging Information:

				
Modules per Pallet	Packaging Dimension: Length/Width/Height	Stackable	Packaging Weight	Tot. Nr. of Pallets/Load
30	200 x 116 x 128 cm	3 pallets	732 kg	26