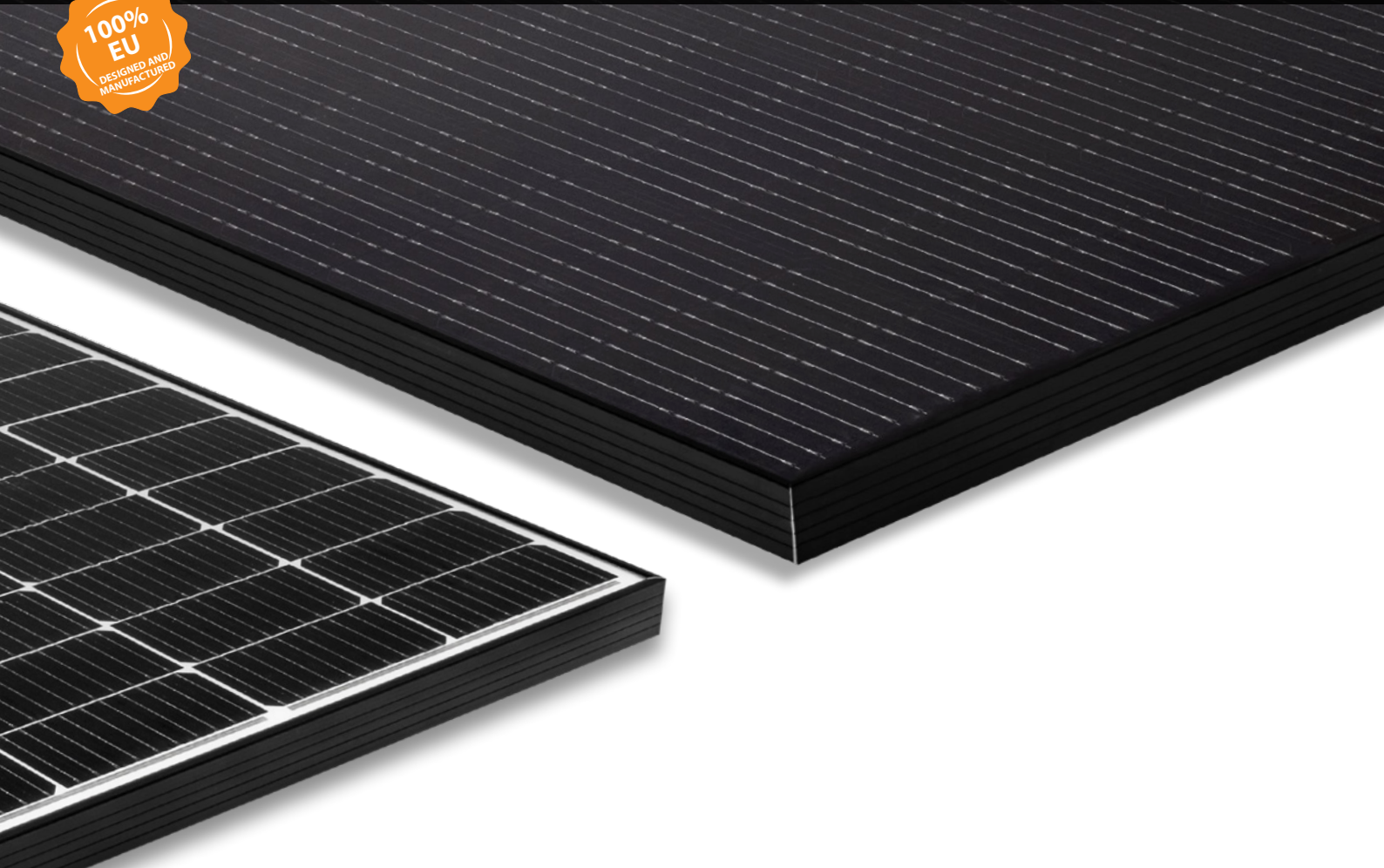


PREMIUM

# BISOL Duplex

Monocrystalline Half-Cut PV Modules (132 Cells) / BBO 500-510 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 %

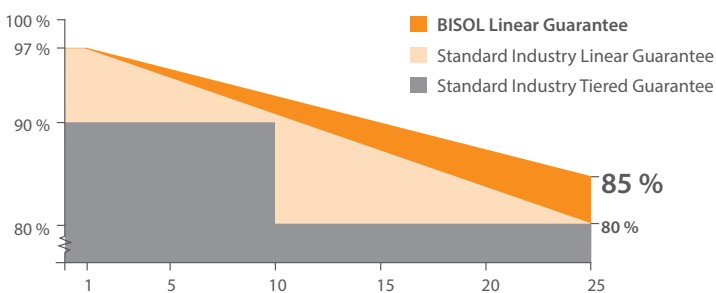


Strictly positive output power tolerances



Excellent low light performance

## Guarantees:



Linear Guarantee  
85% power output in 25<sup>th</sup> year



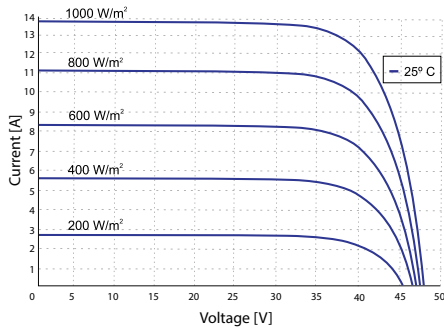
Product Guarantee  
Standard: 15 years  
Extra: 20 years

## In compliance with:

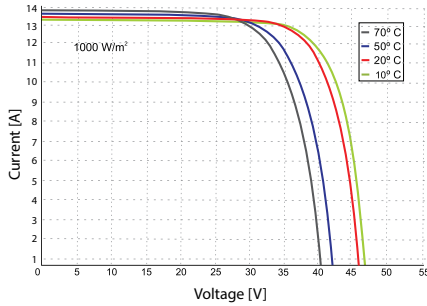


Certificates available upon special request. Additional charges may apply.

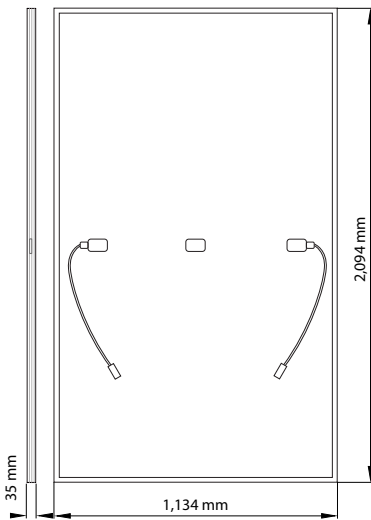
### I-V Curve at Various Irradiation Levels



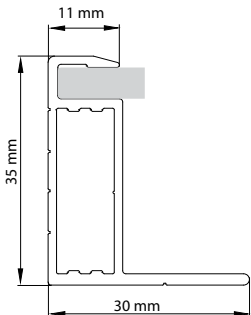
### I-V Curve at Various Cell Temperatures



### Dimensions



### Frame Cross Section



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

Module Type	BBO	500	510
Nominal Power	$P_{MPP}$ [W]	500	510
Short Circuit Current	$I_{SC}$ [A]	13.1	13.4
Open Circuit Voltage	$V_{OC}$ [V]	48.4	48.5
MPP Current	$I_{MPP}$ [A]	12.4	12.6
MPP Voltage	$V_{MPP}$ [V]	40.4	40.5
Module Efficiency	$\eta_M$ [%]	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/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, 43 °C, Wind 1 m/s):

Module Type	BBO	500	510
Nominal Power	$P_{MPP}$ [W]	378	386
Short Circuit Current	$I_{SC}$ [A]	10.57	10.82
Open Circuit Voltage	$V_{OC}$ [V]	46.1	46.2
MPP Current	$I_{MPP}$ [A]	10.01	10.17
MPP Voltage	$V_{MPP}$ [V]	37.8	38.0

### Thermal Specifications:

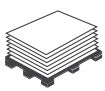
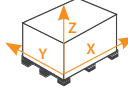



Current Temperature Coefficient	$\alpha$	+ 0.05 %/°C
Voltage Temperature Coefficient	$\beta$	- 0.26 %/°C
Power Temperature Coefficient	$\gamma$	- 0.34 %/°C
NOCT		43 $\pm$ 2 °C
Temperature Range		- 40 °C to + 85 °C

### Mechanical Specifications:

Length x Width x Thickness	2,094 x 1,134 x 35 mm
Weight	26 kg
Solar Cells	132 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 AR coating tempered glass / high-transparency / low-iron content
Certified Test Load (Snow/Wind)	5,400 Pa / 2,400 Pa
Impact Resistance	Hailstone / $\Phi$ 25 mm / 83 km/h (51 mph)

Tolerances of values are  $\pm 5$  %. 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
30	212 x 116 x 127 cm	3 pallets	807 kg	24

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

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