

PREMIUM

BISOL Duplex

Monocrystalline Half-Cut PV Modules (132 Cells) / BBO 520-540 Wp



Special offer with:



Extra Product Guarantee:

20 years



Designed and
manufactured in EU



Higher power



Lower losses



All relevant certificates



Limited shading



Module presorting
for higher profitability



Module efficiency
up to 22.3 %

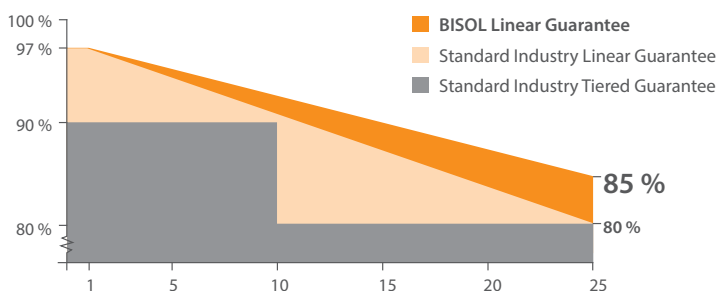


Strictly positive
output power tolerances



Excellent low light
performance

Guarantees:



Linear Guarantee
85 % power output
in 25th year



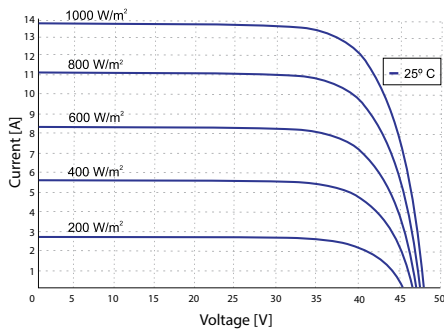
Product Guarantee
Standard: 15 years
Extra: 20 years

In compliance with:

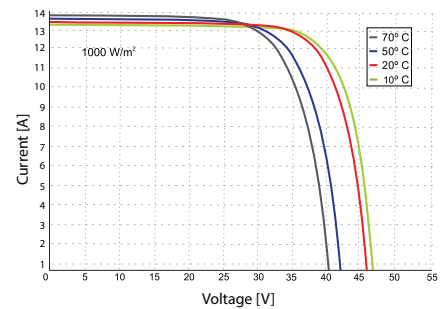


Certificates available upon special request. Additional charges may apply.

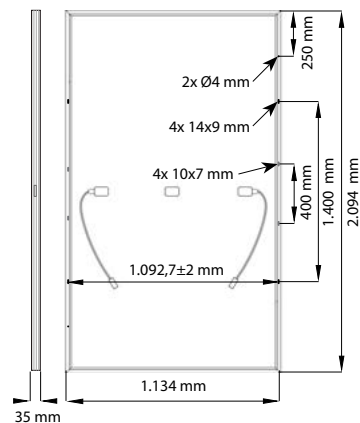
I-V Curve at Various Irradiation Levels



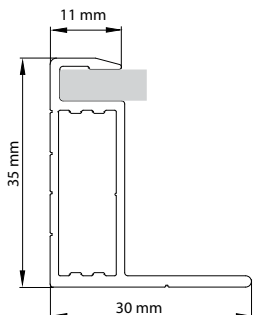
I-V Curve at Various Cell Temperatures



Dimensions



Frame Cross Section



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

Module Type	BBO	520	525	530	540
Nominal Power	P_{MPP} [W]	520	525	530	540
Short Circuit Current	I_{SC} [A]	14.3	14.4	14.4	14.6
Open Circuit Voltage	V_{OC} [V]	46.4	46.6	46.7	47.0
MPP Current	I_{MPP} [A]	13.6	13.7	13.8	13.9
MPP Voltage	V_{MPP} [V]	38.5	38.6	38.8	39.1
Module Efficiency	η_M [%]	21.9	22.1	22.3	22.7
Cell Efficiency	η_C [%]	23.8	24.0	24.2	24.7
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. I Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. I Tolerances for V_{OC} and I_{SC} and other electrical parameters are ±3 %.

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

Module Type	BBO	520	525	530	540
Nominal Power	P_{MPP} [W]	398.0	402.0	405.0	413.0
Short Circuit Current	I_{SC} [A]	11.53	11.61	11.61	11.77
Open Circuit Voltage	V_{OC} [V]	44.4	44.6	44.7	45.0
MPP Current	I_{MPP} [A]	10.96	11.04	11.12	11.21
MPP Voltage	V_{MPP} [V]	36.4	36.5	36.5	36.9

Thermal Specifications:

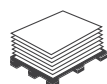
Current Temperature Coefficient	α	+ 0.045 %/°C
Voltage Temperature Coefficient	β	- 0.250 %/°C
Power Temperature Coefficient	γ	- 0.300 %/°C
NOCT		42 ± 3 °C
Temperature Range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	2,094 x 1,134 x 35 mm
Weight	26 kg
Solar Cells	132 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
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)

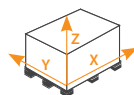
Tolerances of values are ±5 %. Unspecified product properties remain under full discretion of BISOL Production.

Packaging Information:



Modules per Pallet

30



Packaging Dimension:
Length/Width/Height

212 x 116 x 127 cm



Stackable

3 pallets



Packaging Weight

807 kg



Tot. Nr. of Pallets/Load

24