PREMIUM

BISOL Duplex

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

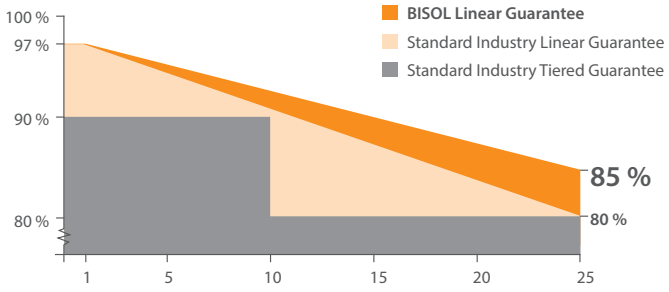
BISOL
Solar company!

100% EU DESIGNED AND MANUFACTURED



- 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:



25 Linear Guarantee
85 % power output in 25th year

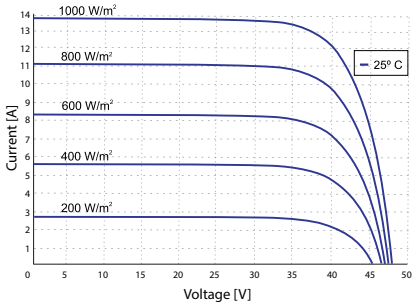
15 Product Guarantee
15 years

In compliance with:

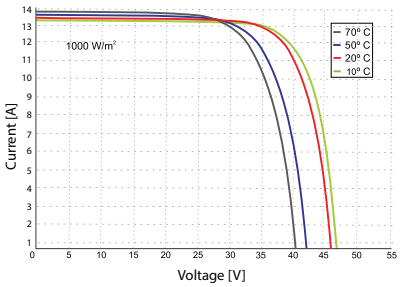
HW3 · certisolis CRE4 · European Recycling Platform · ÖVE · CE · AIT Austrian Institute of Technology · IEC 61730 Ed.1 61215 Ed.2 · IEC 62804-1 · IEC 62716 Ammonia resistance · Istituto Giordano · TÜV SÜD · ISO 9001 SGS · ISO 45001 SGS · ISO 14001 SGS · MCS CERTIFIED

Certificates available upon special request. Additional charges may apply.

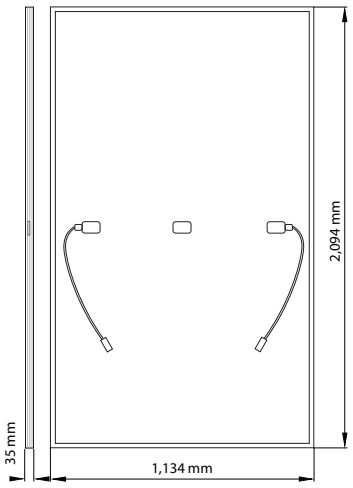
I-V Curve at Various Irradiation Levels



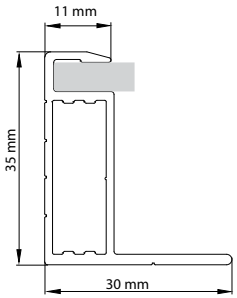
I-V Curve at Various Cell Temperatures



Dimensions



Frame Cross Section



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

Module Type	BBO	500	510
Nominal Power	P_{MPP} [W]	500	510
Short Circuit Current	I_{SC} [A]	13.85	13.96
Open Circuit Voltage	V_{OC} [V]	45.5	45.8
MPP Current	I_{MPP} [A]	13.16	13.36
MPP Voltage	V_{MPP} [V]	38.0	38.2
Module Efficiency	η_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. 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, 43 °C, Wind 1 m/s):

Module Type	BBO	500	510
Nominal Power	P_{MPP} [W]	378	386
Short Circuit Current	I_{SC} [A]	11.18	11.27
Open Circuit Voltage	V_{OC} [V]	43.4	43.6
MPP Current	I_{MPP} [A]	10.62	10.78
MPP Voltage	V_{MPP} [V]	35.6	35.8

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	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 / Φ 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
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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