

SUPREME

BISOL Supreme™

Monocrystalline PV Module BDO 415 Wp



The one & only in the world with **25 years of 100 % Output Power Guarantee**



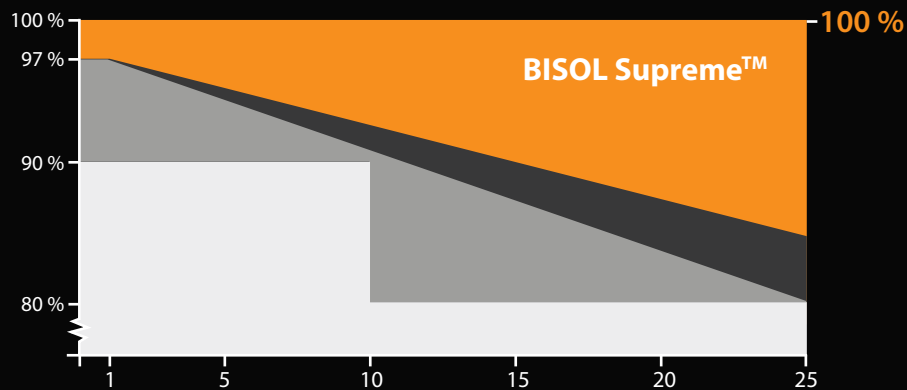
100 % Output Power Guarantee



0 % Effective Degradation Rate



+11 % More Energy



- Specialized equipment, materials tested to destruction, unique processes
- Individualised QR code
- Improved temperature coefficients
- Lower NOTC
- PID, LID and other ID free
- 25-year product guarantee

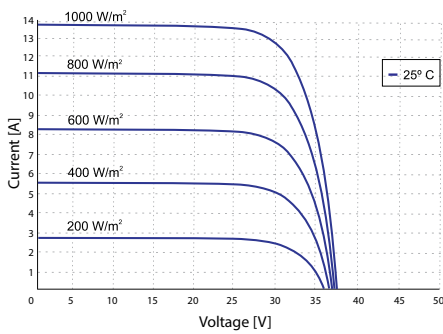


Get your
BISOL Supreme™ Cashback.

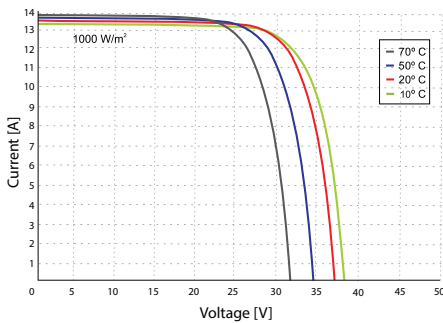


Limited to 30 MW per BISOL client

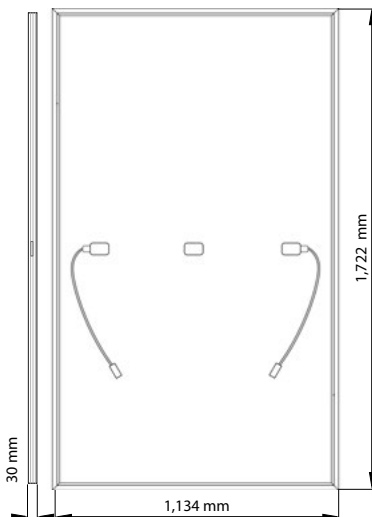
I-V Curve at Various Irradiation Levels



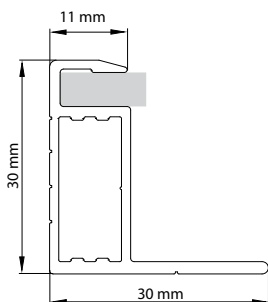
I-V Curve at Various Cell Temperatures



Dimensions



Frame Cross Section



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

Module Type	BDO	415
Nominal Power	P_{MPP} [W]	415
Short Circuit Current	I_{SC} [A]	14.2
Open Circuit Voltage	V_{OC} [V]	37.7
MPP Current	I_{MPP} [A]	13.4
MPP Voltage	V_{MPP} [V]	31.0
Module Efficiency	η_M [%]	21.3
Cell Efficiency	η_C [%]	23.2
Power Output Tolerance		0/+10 W
Maximum Reverse Current		25 A
Maximum System Voltage		1,500 V
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 %.

Thermal Specifications:

Current Temperature Coefficient	α	+ 0.056 %/°C
Voltage Temperature Coefficient	β	- 0.257 %/°C
Power Temperature Coefficient	γ	- 0.275 %/°C
NOCT		42 \pm 3 °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 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.

In Compliance With:



Certificates available upon special request. Additional charges may apply.

Packaging Information:

Modules per Pallet	Packing Dimension: Length/Width/Height	Stackable	Packing Weight	Tot. Nr. of Pallets/Load
35	175 x 116 x 128 cm	3 pallets	794 kg	30

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