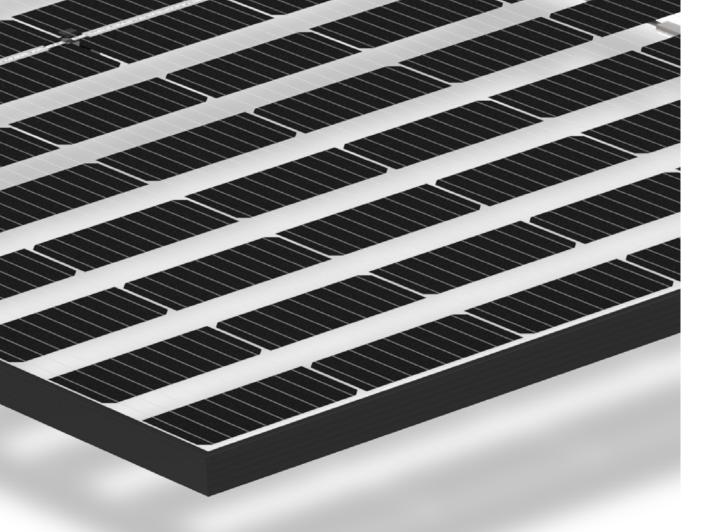


Bifacial PV modules with transparent backsheet for improved transmittance of natural light.





Bifacial Monocrystalline PV Modules with Transparent Backsheet

BISOL Lumina modules with transparent backsheet are made in the same dimensions as standard PV modules but contain fewer cells and with bigger gaps between them to allow natural light to pass through.

They are suitable for winter gardens, skylights, greenhouses, sunshades, car canopies or other buildings which require better lighting.

The standard **matrix** offers a perfect **transparent area** to allow enough light to shine through.

The modules can be delivered with a **standard** or **Solrif frame** for building-integrated applications, as well as without frame in the form of laminates.

Advantages:



Designed and manufactured in EU



Transparent back foil



Choice of standard or BIPV frame



Bifacial module



Available with or without frame



Exellent low light performance



Natural light transmission

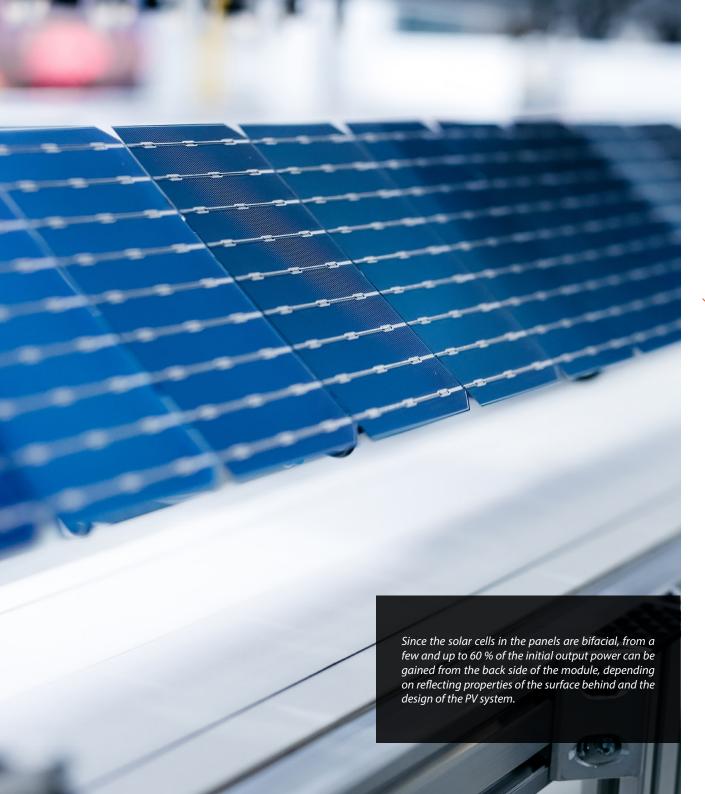


On-roof or BIPV

All BISOL PV modules are designed and manufactured in the heart of European Union in Slovenia. Contact us if you are interested to visit our BISOL Production!

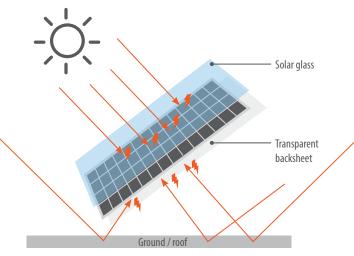
Did you know?

▶ BISOL Lumina modules offer the best power/transparency ratio.

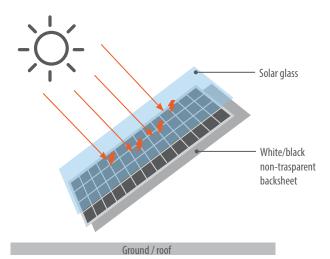


Bifacial Monocrystalline PV Modules with Transparent Backsheet

Bifacial Module with Transparent Backsheet Technology



Standard Module without Transparent Backsheet Technology





Bifacial Monocrystalline PV Modules with Transparent Backsheet



Did you know?

▶ Unlike many solar manufacturers, BISOL sends every single module through EL test, which can proven by a unique tracking system. It is important to check the module for potential micro-cracks or other irregularities before lamination when all defects can still be repaired. This way, all the final products are 100 % reliable.



Bifacial Monocrystalline PV Modules with Transparent Backsheet

Thermal Specifications

Current Temperature Coefficient	а	+ 0.05 %/°C
Voltage Temperature Coefficient	β	- 0.26 %/°C
Power Temperature Coefficient	γ	- 0.34 %/℃
NOCT		43 ± 2 °C
Temperature Range		- 40 °C to + 85 °C

In compliance with:















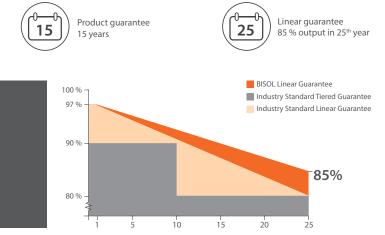








Guarantees:





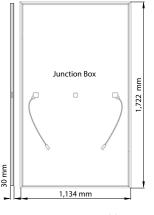
Bifacial Monocrystalline PV Modules with Transparent Backsheet

Mechanical Specifications

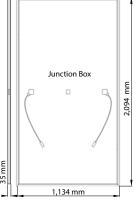
Length x Width x Thickness	BDO: 1,722 x 1,134 x 30 mm BBO: 2,094 x 1,134 x 35 mm
Weight	BDO: 22 kg / BBO: 26 kg
Solar Cells	Half-Cut mono Bifacial c-Si / 182 mm x 91 mm
Junction Box / Connectors / IP	Three bypass diodes / MC4 compatible / IP 68
Cable Lenght	Default: 1,200 mm On demand (for portrait orientation): 300 mm
Frame	Anodized AI with drainage holes / rigid anchored corners
Glass	3.2 mm glass with anti-reflective coating / tempered / high-transparency / low-iron content
Packaging	BDO: 35 modules per pallet / stackable 3 pallets high BBO: 30 modules per pallet / stackable 3 pallets high
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 \pm 5 %. Unspecified product properties remain under full discretion of BISOL.

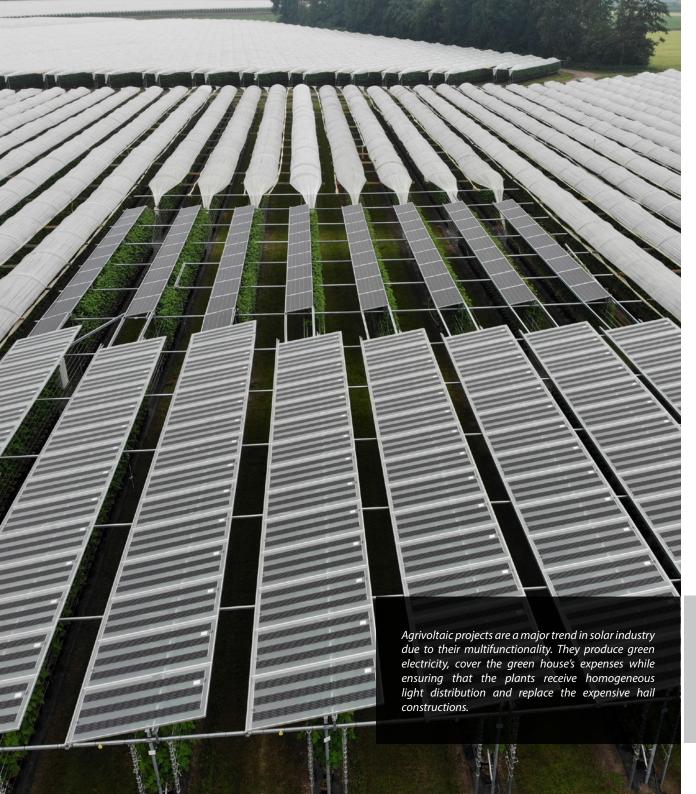
Dimensions







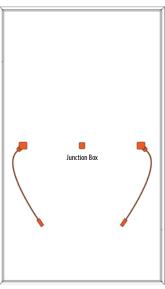
BISOL Lumina BBO module



Bifacial Monocrystalline PV Modules with Transparent Backsheet

Special design of the junction box to minimize shading



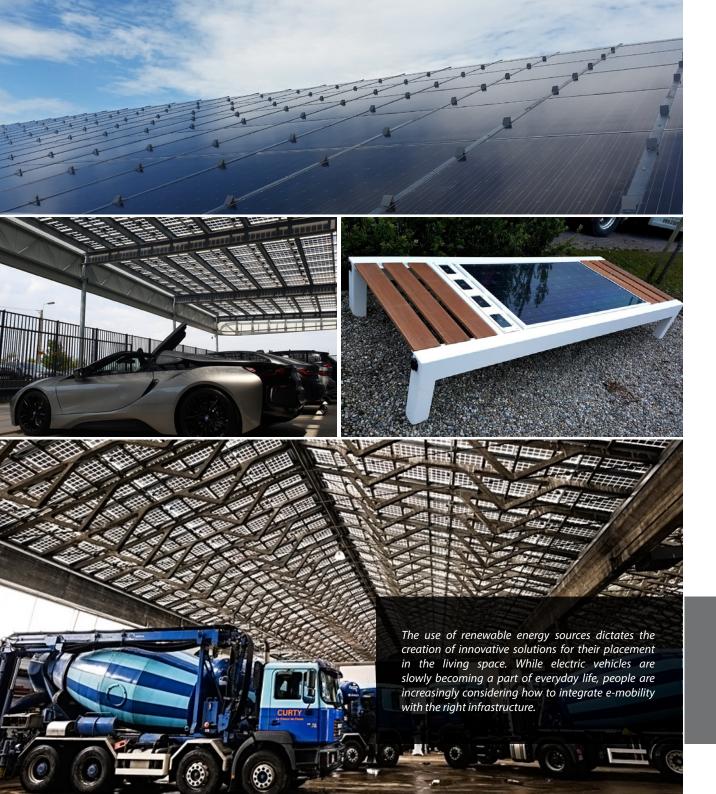


BISOL Lumina PV Module

Standard Duplex PV Module

Did you know?

To make sure the transparent BISOL Lumina modules offer as much light transmittion as possible, we adjusted the design of the junction-box and placed it in the perfect position to minimise shading.



Bifacial Monocrystalline PV Modules with Transparent Backsheet

BISOL Lumina modules are extremely lightweight compared to similar products on the market. Simoultaneously, they are remarkably rigid and prone to hail, snow, wind and other demanding weather conditions.









Lightweight

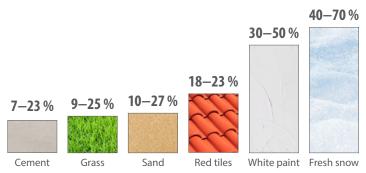
Rigid materials

installation

Extreme weather conditions

The albedo responsible for gaining power from the rear side depends on reflecting properties of the surface behind the module.

Approximate percentage of gained power according to different surfaces*:



^{*}The exact number depends on many factors, such as the colour shade of the surface as well as the ammount of diffuse sunlight, the reflected diffuse sunlight and the reflected direct sunlight.





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Scan the QR code to watch our beautiful promo video *Power & Elegance!*

Dealer information

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