



Colour your **LIFE!**

BISOL Spectrum



RED - Ruby Ray

Coloured Glass

BISOL Spectrum

With respect for our natural surroundings and the architectural legacy in mind, we are introducing exclusive **BISOL Spectrum** photovoltaic modules with coloured glass, whereby you no longer have to compromise aesthetics for efficiency when harnessing the endless power of the sun.

BISOL Spectrum modules were designed not only to conform, but also to refine the architectural traits of buildings and roofs of various types and styles. Available in a wide palette of colours, BISOL Spectrum PV modules can now really become an integral part of the building by either seamlessly blending into the historic character of the building in its natural setting, or by contributing to the manifestation of the building's modern design features. Their unique look allows discreet blending with the scenery, hence preserving the timeless beauty of diverse natural settings. Either way, BISOL Spectrum modules will undoubtedly add a timeless aesthetical value.

Advantages:



Made in EU



Available in
variety of colours



A perfect colour
match to your roof



On-roof or BIPV



PID free



Module presorting
for higher profitability

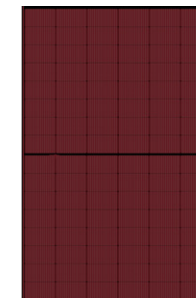


Excellent low light
performance



Double
insulation

RED glass is a good choice for most European roofs, especially if the building is under cultural heritage protection, since the panels will be almost invisible.



Red - Ruby Ray

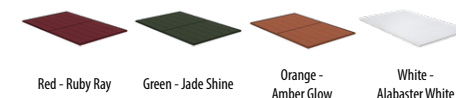


ORANGE glass matches the shades of brick roofs all around the world, and maintains the colour recognition of the environment.

ORANGE - Amber Glow

Coloured Glass

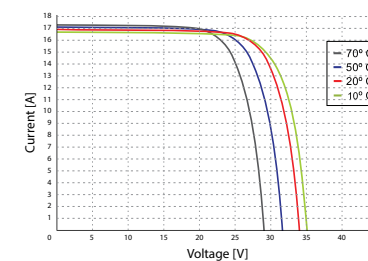
Electrical Specifications @ STC (1,000 W/m², AM 1.5, 25 °C):



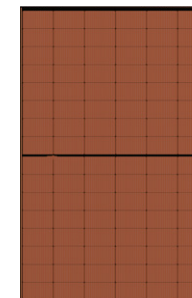
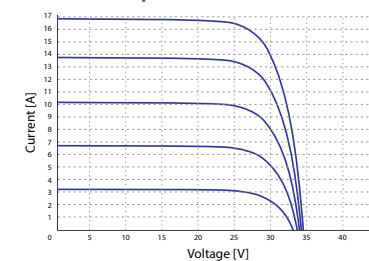
| Module Type | BDO | 360 | 410 | 360 | 300 |
|-------------------------|---------------|-----------|------|------|------|
| Nominal Power | P_{MPP} [W] | 360 | 410 | 360 | 300 |
| Short Circuit Current | I_{SC} [A] | 14.4 | 16.9 | 14.2 | 9.45 |
| Open Circuit Voltage | V_{OC} [V] | 33.4 | 33.6 | 33.9 | 39.2 |
| MPP Current | I_{MPP} [A] | 13.0 | 15.3 | 13.0 | 9.0 |
| MPP Voltage | V_{MPP} [V] | 27.7 | 26.8 | 27.7 | 33.5 |
| Power Output Tolerance | | $\pm 3\%$ | | | |
| Maximum Reverse Current | | 30 A | | | |
| Maximum System Voltage | | 1,500 V | | | |
| Protection Class | | Class II | | | |

Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. | Tolerances for V_{OC} and I_{SC} and other electrical parameters are $\pm 3\%$.

I-V Curve at Various Irradiation Levels



I-V Curve at Various Cell Temperatures



Orange - Amber Glow



WHITE glass is a great solution for easy blend-in with large surface buildings that also keeps them cooler.

WHITE - Alabaster White

Coloured Encapsulant

Thermal Specifications

| | | |
|---------------------------------|----------|--------------------|
| Current Temperature Coefficient | α | + 0.05 %/°C |
| Voltage Temperature Coefficient | β | - 0.25 %/°C |
| Power Temperature Coefficient | γ | - 0.29 %/°C |
| NOCT | | 42 °C \pm 3 °C |
| Temperature Range | | - 40 °C to + 85 °C |

In compliance with:



Certificates available upon special request. Additional charges may apply.



White - Alabaster White

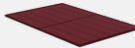

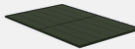







GREEN glass goes well with the natural environment and is the greenest solution for the planet.

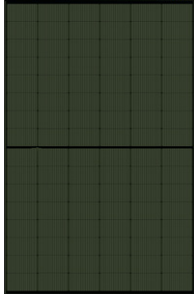
GREEN - Jade Shine

Coloured Glass

Colour Availability

| Spectrum PV module | | Frames, BIPV Flashings, Middle and End Clamps | |
|---|-------------------------|---|----------|
|  | Red - Ruby Ray |  | RAL 8017 |
|  | Green - Jade Shine |  | RAL 6009 |
|  | Orange - Amber Glow |  | RAL 8004 |
|  | White - Alabaster White |  | RAL 9016 |

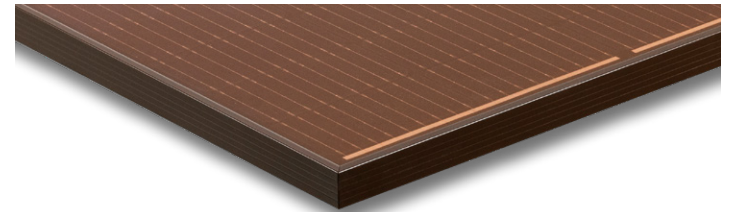
The actual colour shades may vary from the images shown. Colour inconsistencies in a module may appear due to the nature of this product.



Green - Jade Shine



On-Roof Solution



Detail of standard frame

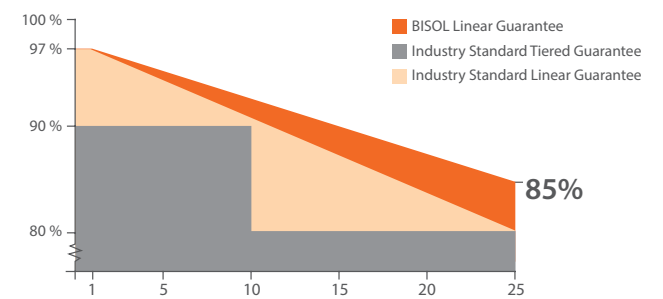
Guarantees:



Product Guarantee
Standard: 15 years
Extra: 20 years



Linear Guarantee
85 % output in 25th year



Roofs represent 20-25% of the total urban area and with photovoltaics, they present an opportunity for sustainable building designs.








Solar energy produces no pollution, has no environmental effects and is ecologically acceptable.

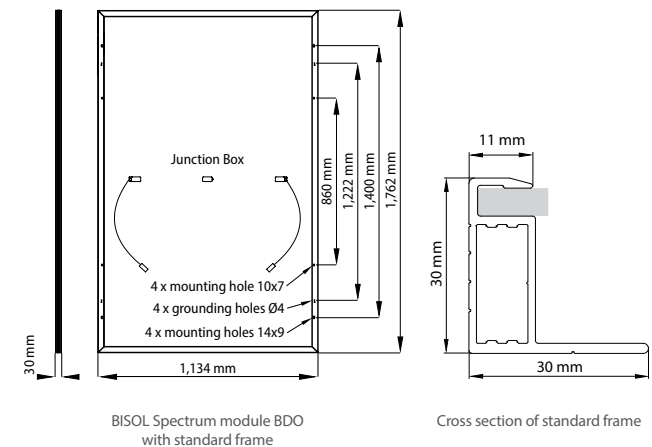
Mechanical Specifications

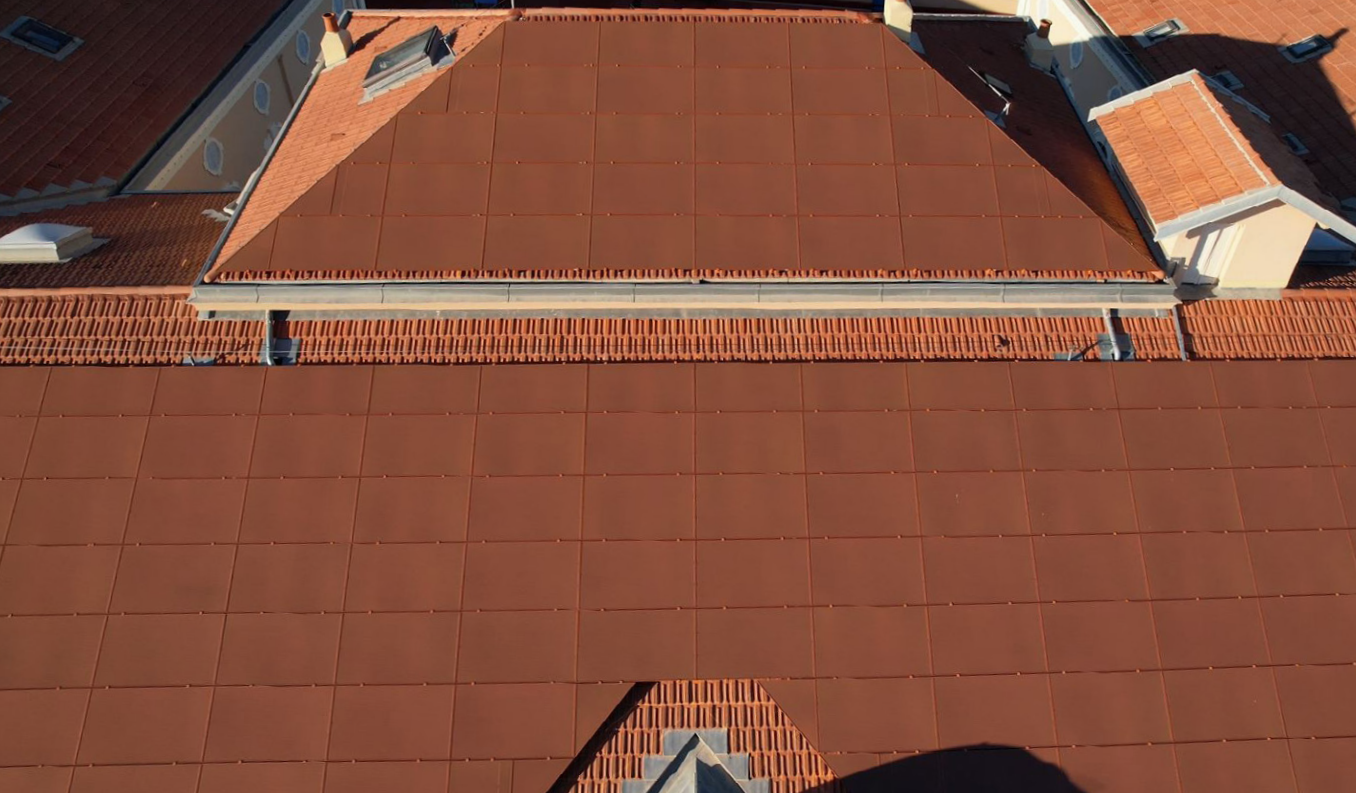
| | |
|--------------------------------|---|
| Length x Width x Thickness | BDO: 1,762 x 1,134 x 30 mm |
| Weight | BDO: 21 kg |
| Solar Cells | 96 Half-Cut c-Si / 182.25 x 105 mm |
| Junction Box / Connectors / IP | Three bypass diodes / MC4 compatible / IP 68 |
| Cable Length | Default: 1,200 mm On demand (for portrait orientation): 300 mm |
| Frame | Anodized Al with mounting and drainage holes / rigid anchored corners. |
| Frame Colour | Any RAL colour code, black or silver |
| Back Sheet Colour | Black |
| Glass | 3.2 mm AR coating tempered glass / high-transparency / low-iron content |
| Impact resistance | Hailstone / Ø 35 mm / 83 km/h (51 mph) |

Packaging Information:

| |  |  |  |  |  |
|-------------|---|---|---|---|---|
| Module Type | Modules per Pallet | Packaging Dimension: Length/Width/Height | Stackable | Packaging Weight | Tot. Nr. of Pallets/ Load |
| BDO | 35 | 178 x 116 x 128 cm | 3 pallets | 759 kg | 28 |

Dimensions







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BISOL Benelux

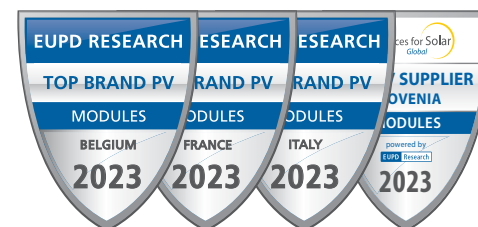
T: +32 (0)484 08 80 78
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Scan the QR code to watch our beautiful
promo video *Power & Elegance!*

"Thanks to the BISOL Spectrum, we now have the possibility to please all our customer concerns. Some of them dislike solar panels because of their aesthetic appearance, while for the majority the return on investment (ROI) is of the highest importance. Now we have the solution that meets both needs – BISOL Spectrum!"

Zonnepanelen Volendam, the Netherlands



Additional terms & conditions apply. Please see *Standard Limited Guarantee* and *General Sales Terms & Conditions*, which are published on the official website www.bisol.com.

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