



# 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

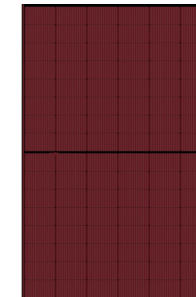


Exellent low light performance



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.*

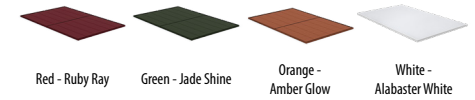


Red - Ruby Ray

# ORANGE - Amber Glow

Coloured Glass

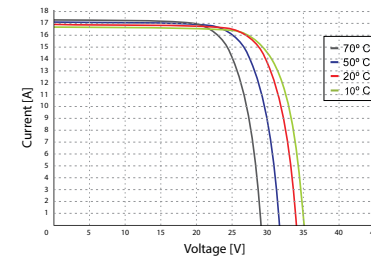
Electrical Specifications @ STC (1,000 W/m<sup>2</sup>, AM 1.5, 25 °C):



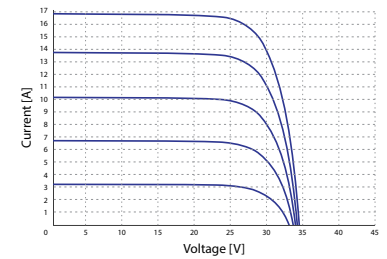
Module Type	BDO	360	410	360	300
Nominal Power	$P_{MPP}$ [W]	360	410	360	300
Short Circuit Current	$I_{SC}$ [A]	14.4	16.9	14.2	9.45
Open Circuit Voltage	$V_{OC}$ [V]	33.4	33.6	33.9	39.2
MPP Current	$I_{MPP}$ [A]	13.0	15.3	13.0	9.0
MPP Voltage	$V_{MPP}$ [V]	27.7	26.8	27.7	33.5
Power Output Tolerance		±3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

Efficiency at irradiation 200 W/m<sup>2</sup>: 99.3 % of STC efficiency or higher. | Tolerances for  $V_{OC}$  and  $I_{SC}$  and other electrical parameters are ±3 %.

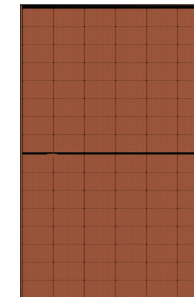
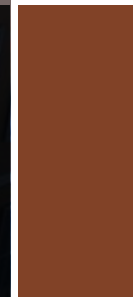
I-V Curve at Various Irradiation Levels



I-V Curve at Various Cell Temperatures



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



Orange - Amber Glow



# WHITE - Alabaster White

Coloured Encapsulant

## Thermal Specifications

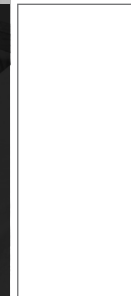
Current Temperature Coefficient	$\alpha$	+ 0.05 %/°C
Voltage Temperature Coefficient	$\beta$	- 0.25 %/°C
Power Temperature Coefficient	$\gamma$	- 0.29 %/°C
NOCT		42 °C $\pm$ 3 °C
Temperature Range		- 40 °C to + 85 °C

In compliance with:



Certificates available upon special request. Additional charges may apply.

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



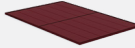

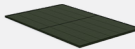


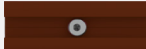


White - Alabaster White



# GREEN - Jade Shine

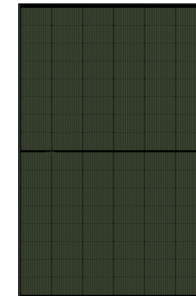
Coloured Glass

## 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.

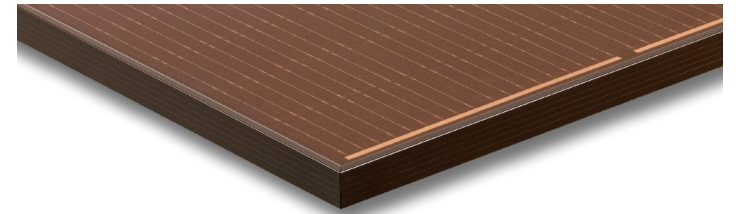
*GREEN glass goes well with the natural environment and is the greenest solution for the planet.*



Green - Jade Shine



## On-Roof Solution



Detail of standard frame

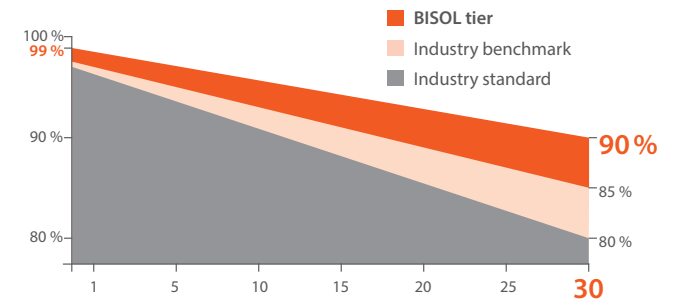
### Guarantee:



Product Guarantee  
25 years



Linear guarantee  
90 % output in 30<sup>th</sup> 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

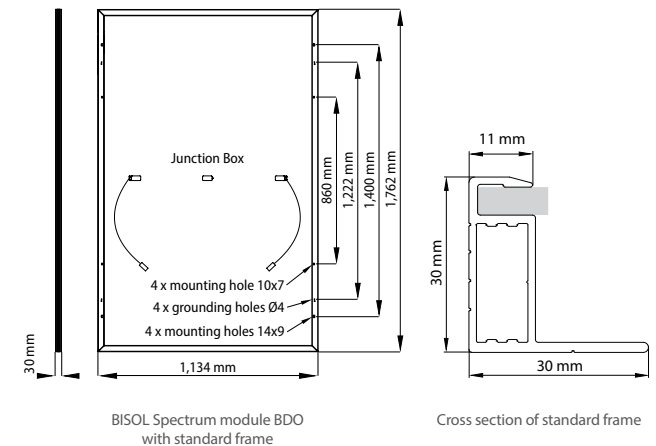
Length x Width x Thickness	BDO: 1,762 x 1,134 x 30 mm
Weight	BDO: 21 kg
Solar Cells	96 Half-Cut c-Si / 182.25 x 105 mm
Junction Box / Connectors / IP	Three bypass diodes / MC4 compatible / IP 68
Cable Length	Default: 1,200 mm On demand (for portrait orientation): 300 mm
Frame	Anodized Al with mounting 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)

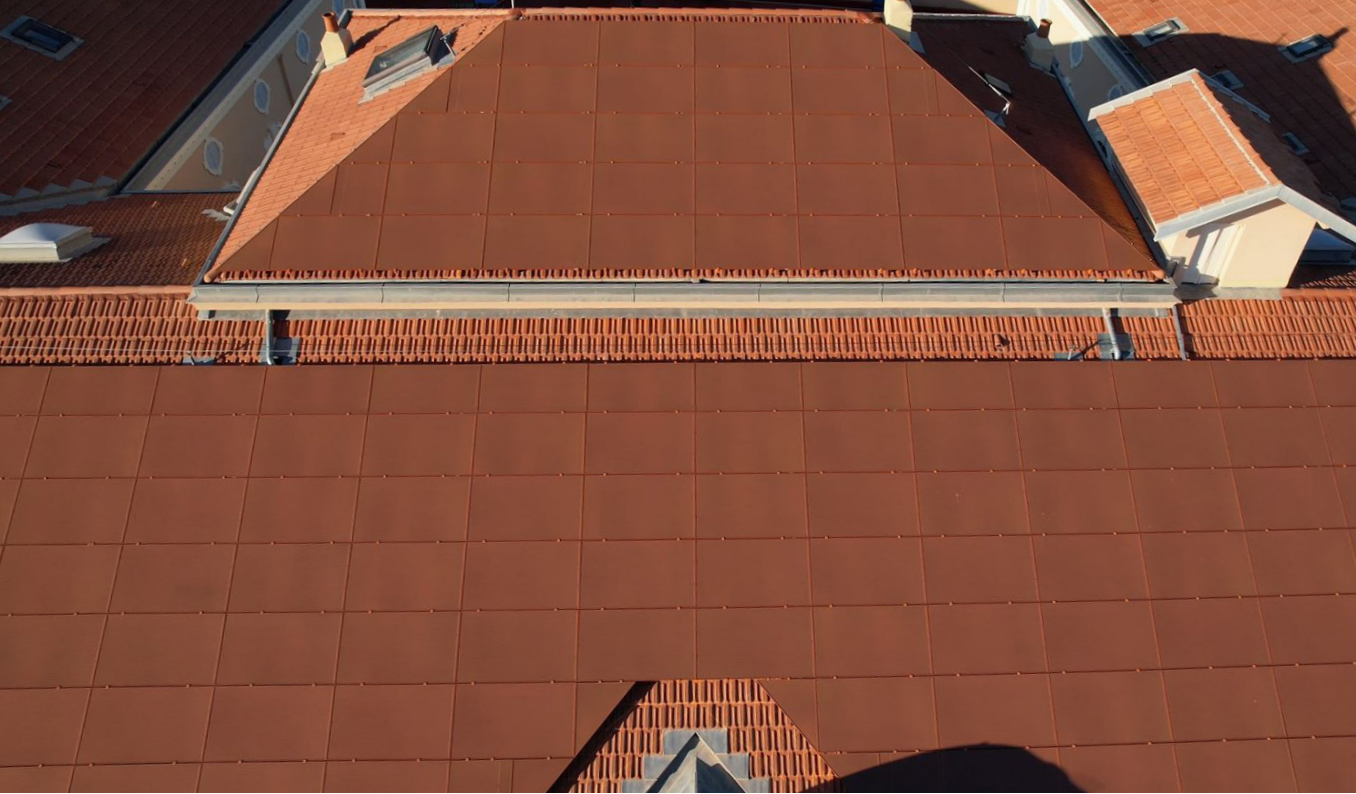
## Packaging Information:



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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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*



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