BISOL Spectrum

Monocrystalline PV Modules with Coloured Glass









Designed & manufactured in EU



PID free



A perfect colour match to your roof



Double insulation



Module presorting for higher profitability

Available in variety of colours



On-roof or BIPV



Supremely low degradation



Excellent low light performance

Guarantees:

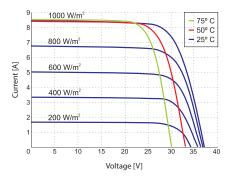


In compliance with:

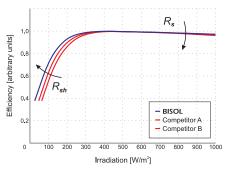


Certificates available upon special request. Additional charges may apply.

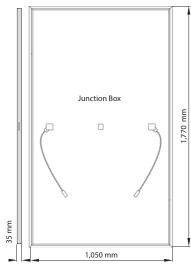
I-V Curve at Various Irradiation Levels and Various Cell Temperatures



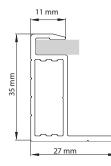
Effective Efficiency



Dimensions



Frame cross section





Electrical Specifications @ STC (AM1.5, 1,000 W/m², 25 °C):

		Deep Red	Forest Green	Terracotta Orange	Alabaster White
Module Type	BDO	320	300	280	220
Nominal Power	$P_{MPP}[W]$	320	300	280	220
Short Circuit Current	$I_{SC}[A]$	9.55	9.30	8.30	6.55
Open Circuit Voltage	V_{OC} [V]	41.5	41.1	43.2	40.9
MPP Current	I _{MPP} [A]	9.10	8.70	7.55	6.20
MPP Voltage	$V_{MPP}[V]$	35.2	34.5	37.1	35.5
Power Output Tolerance			±3	3 %	
Maximum Reverse Current		18 A			
Maximum System Voltage		1,500 V (Application Class A)			

Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. I Power measurement tolerance: ± 3 %.

Electrical Specifications @ NOCT (AM1.5, 800 W/m², 20 $^{\circ}$ C, wind: 1m/s; Cell Temperature 44 $^{\circ}$ C):

Module Type	BDO	320	300	280	220
Nominal Power	P _{MPP} [W]	239	224	209	164
Short Circuit Current	<i>I_{SC}</i> [A]	7.73	7.52	6.72	5.30
Open Circuit Voltage	<i>V_{OC}</i> [V]	39.4	39.0	41.0	38.8
MPP Current	I _{MPP} [A]	7.36	7.04	6.11	5.02
MPP Voltage	V _{MPP} [V]	32.5	31.8	34.2	32.8

Power measurement tolerance: ±3 %.

Thermal Specifications:

Current Temperature Coefficient	α	+ 0.06 %/C
Voltage Temperature Coefficient	β	- 0.27 %/C
Power Temperature Coefficient	Ŷ	- 0.35 %/C
NOCT		44 ± 2 °C
Temperature range		- 40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	1,770 x 1,050 x 35 mm
Weight	20.5 kg
Solar Cells	120 Half-Cut mono c-Si / 166 mm x 166 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	Standard frame (anodized AL with drainage holes and rigid anchored corners)
Back Sheet Colour	Black
Glass	3.2 mm glass with anti-reflective coating / tempered / high-transparency / low-iron content
Packaging	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 ± 5 %. Unspecified product properties remain under full discretion of BISOL.

Dealer Information

www.bisol.com

Additional terms & conditions apply. Please see *Standard Limited Guarantee* and *General Sales Terms and Conditions*. © BISOL Group d.o.o. October 2021. All rights reserved. All information presented in this document is subject to change without prior notice and serve for informative purposes only.