

BISOL Lumina Series

High-Transparency Monocrystalline PV Modules



Made in EU



Sets of 28 to 60 cells available



Transparent back foil



Available with or without frame

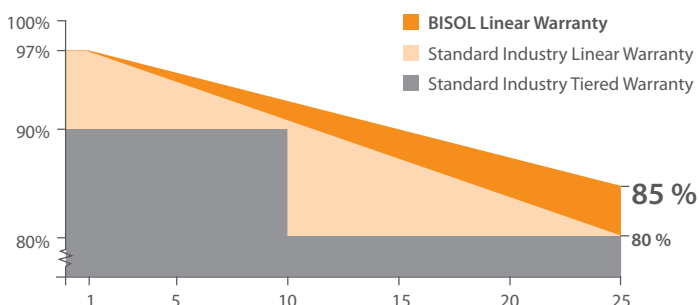


Choice of standard or BIPV frame



Natural light transmission

Warranties:



Linear warranty
85% power output in 25th year



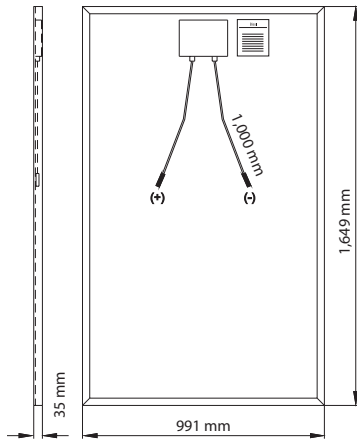
Product warranty
10 years

In compliance with:

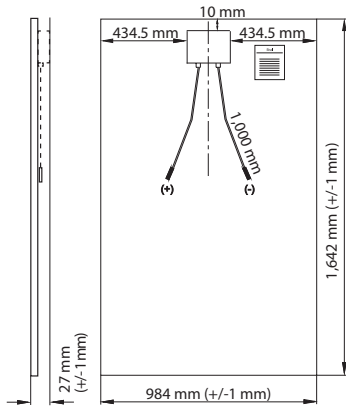


Certificates available upon special request. Additional charges may apply.

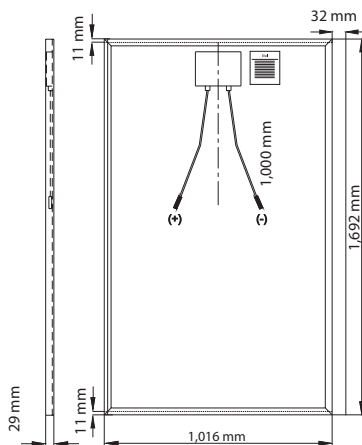
Dimensions of module type BMO (standard frame)



Dimensions of laminate type BLO (without frame)



Dimensions of module type BSO (Solrif® frame)



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

Module Type BMO / BSO / BLO		130	150	170	185	170	195	225	250	280
Nominal Power	P_{MPP} [W]	130	150	170	185	170	195	225	250	280
Number of cells		28	32	36	40	36	42	48	54	60
Cell matrix		4 x 7	4 x 8	4 x 9	4 x 10	6 x 6	6 x 7	6 x 8	6 x 9	6 x 10
Transparent area	in cm ²	8,662	7,707	6,752	5,797	6,752	5,320	3,887	2,454	1,021
	in %	53.0	47.2	41.3	35.5	41.3	32.6	23.8	15.0	6.2
Short Circuit Current	I_{SC} [A]	9.35	9.35	9.35	9.35	9.35	9.35	9.35	9.35	9.35
Open Circuit Voltage	V_{OC} [V]	18.6	21.3	24.0	26.6	24.0	28.0	31.9	35.9	39.9
MPP Current	I_{MPP} [A]	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
MPP Voltage	V_{MPP} [V]	14.4	16.7	18.9	20.6	18.9	21.7	25.0	27.8	31.1
Solar Cell Efficiency	η_C [%]	19	19	19	19	19	19	19	19	19
Module Efficiency	η_M [%]	8	9	10	11	10	12	14	15	17
Power Output Tolerance		+/- 3 %								
Maximum Reverse Current		18 A								
Maximum System Voltage		1,000 V (Application Class A)								

Additional power classes available upon request. | Efficiency at irradiation 200 W/m²: 99.3% of STC efficiency or higher. | Power measurement tolerance: +/- 3 %.

Thermal Specifications:

Current Temperature Coefficient	α	+ 0.046 %/K
Voltage Temperature Coefficient	β	- 0.30 %/K
Power Temperature Coefficient	γ	- 0.39 %/K
NOCT		44 °C
Temperature range		-40 °C to +85 °C

Mechanical Specifications:

Length x Width x Thickness	BMO: 1,649 mm x 991 mm x 35 mm / BSO (Solrif®): 1,692 mm x 1,016 mm x 29 mm / BLO: 1,642 mm x 984 mm x 27 mm
Weight	BMO: 18.3 kg / BSO (Solrif®): 18.4 kg / BLO 15.8 kg
Solar Cells	Mono c-Si in series / 156 mm x 156 mm (6+)
Junction Box / Connectors	Three bypass diodes / MC4 compatible / IP 67
Frame	Standard frame (anodized AL with drainage holes and rigid anchored corners) or BIPV (Solrif®) frame or laminate
Frame Colour	Any RAL colour code, black or silver
Back Sheet Colour	Transparent
Glass	3.2 mm glass with anti-reflective coating / tempered / high-transparency / low-iron content
Packaging	BMO: 28 modules per pallet / stackable 3 pallets high BSO (Solrif®): 24 modules per pallet / stackable 2 pallets high BLO: 30 laminates per pallet / stackable 2 pallets high
Certified Nominal Load	5,400 Pa for BMO / 2,400 Pa for BSO (Solrif®) / maximum nominal load for BLO depends on Laminate fixation system
Impact resistance	Hailstone / Φ 25 mm / 83 km/h (51 mph)

All unspecified tolerances are \pm 5 %. Unspecified product properties remain under full discretion of BISOL.

Dealer Information

www.bisol.com | www.bisol.co.uk



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

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