

BISOL Lumina Series

High-Transparency Multicrystalline PV Modules



Solar company!



Designed & manufactured in EU



Sets of 28 to 60 cells available



Transparent back foil



Available with or without frame

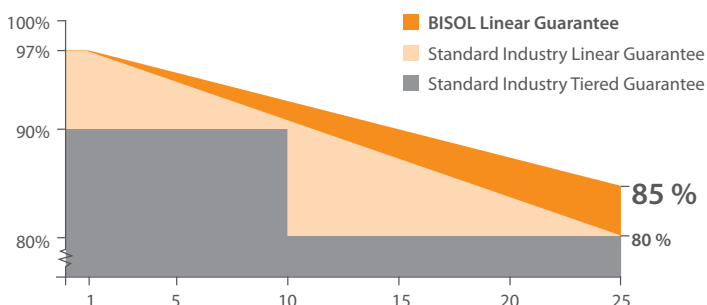


Choice of standard or BIPV frame



Natural light transmission

Guarantees:



Linear guarantee
85% power output in 25th year



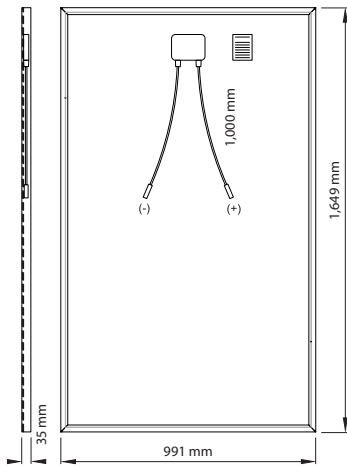
Product guarantee
15 years

In compliance with:

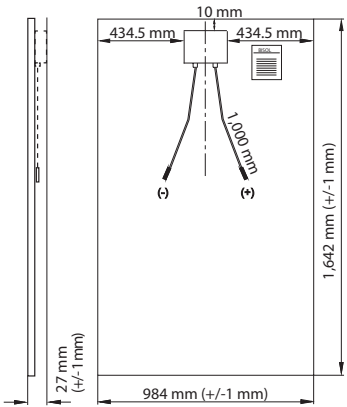


Certificates available upon special request. Additional charges may apply.

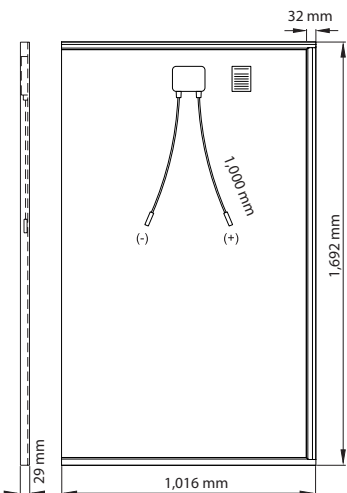
Dimensions of module type BMU (standard frame)



Dimensions of laminate type BLU (without frame)



Dimensions of module type BSU (Solrif® frame)



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

Module Type BMU / BSU / BLU		130	150	170	185	170	195	225	250	280
Nominal Power	P_{MPP} [W]	130	150	165	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	8,537	7,563	6,590	5,617	6,590	5,130	3,671	2,211	751
	in %	52.2	46.3	40.3	34.4	40.3	31.4	22.5	13.5	4.6
Short Circuit Current	I_{SC} [A]	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
Open Circuit Voltage	V_{OC} [V]	18.5	21.2	23.8	26.5	23.8	27.8	31.8	35.7	39.7
MPP Current	I_{MPP} [A]	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10
MPP Voltage	V_{MPP} [V]	14.3	16.5	18.7	20.3	18.7	21.4	24.7	27.5	30.8
Solar Cell Efficiency	η_C [%]	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
Module Efficiency	η_M [%]	8.0	9.2	10.4	11.3	10.4	11.9	13.8	15.3	17.1
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	+ 0.049 %/K
Voltage Temperature Coefficient	β	- 0.31 %/K
Power Temperature Coefficient	γ	- 0.40 %/K
NOCT		44 °C
Temperature range		-40 °C to + 85 °C

Mechanical Specifications:

Length x Width x Thickness	BMU: 1,649 mm x 991 mm x 35 mm / BSU (Solrif®): 1,692 mm x 1,016 mm x 29 mm / BLU: 1,642 mm x 984 mm x 27 mm
Weight	BMU: 18.3 kg / BSU (Solrif®): 18.4 kg / BLU 15.8 kg
Solar Cells	Multi 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	BMU: 30 modules per pallet / stackable 3 pallets high BSU (Solrif®): 24 modules per pallet / stackable 2 pallets high BLU: 30 laminates per pallet / stackable 2 pallets high
Certified Nominal Load (snow/wind)	5,400 Pa / 2,400 Pa for BMU 2,400 Pa / 2,400 Pa for BSU (Solrif®) Maximum nominal load for BLU depends on Laminate fixation system
Impact resistance	Hailstone / Ø 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 | www.bisol.co.uk



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

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