

PREMIUM

BISOL Lumina

Bifacial PV Modules with Transparent Backsheet / BBO 400 Wp (+ Bifacial Gain)



Designed and manufactured in EU



All relevant certificates



Lower losses



Module presorting for higher profitability



Excellent low light performance



Natural light transmission



Available with or without frame

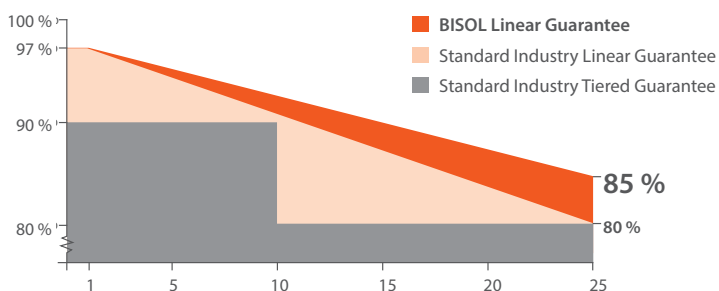


Transparent back foil



Bifacial module

Guarantees:



Linear Guarantee
85 % power output in 25th year



Product Guarantee
Standard: 15 years
Extra: 20 years

In compliance with:



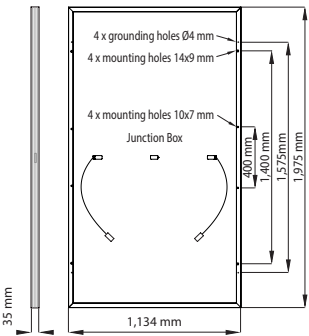
Certificates available upon special request. Additional charges may apply.

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

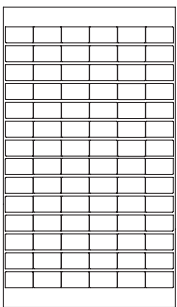
| Module Type | | BBO | 400 | | | | |
|-------------------------|---------------|-------|---------------|---------------|------|------|--|
| Number of Half-Cut c-Si | | | 84 | | | | |
| Cell Matrix | | | 6 x 7 + 6 x 7 | | | | |
| Transparent Area | m² | 0.551 | | | | | |
| | % | 25.3 | | | | | |
| | | | Front | Bifacial Gain | | | |
| Light Source | % | 100 | 10 | 20 | 30 | 40 | |
| Nominal Power | P_{MPP} [W] | 400 | 440 | 480 | 520 | 560 | |
| Short Circuit Current | I_{SC} [A] | 16.1 | 17.6 | 19.2 | 20.7 | 22.2 | |
| Open Circuit Voltage | V_{OC} [V] | 31.4 | 31.6 | 31.6 | 31.8 | 31.9 | |
| MPP Current | I_{MPP} [A] | 15.3 | 16.8 | 18.2 | 19.7 | 21.1 | |
| MPP Voltage | V_{MPP} [V] | 26.2 | 26.2 | 26.4 | 26.4 | 26.6 | |
| Module Efficiency | η_M [%] | 17.9 | | | | | |
| Power Output Tolerance | | | ±3 % | | | | |
| Maximum Reverse Current | | | 30 A | | | | |
| Maximum System Voltage | | | 1,500 V | | | | |
| Protection Class | | | Class II | | | | |

Additional power classes available upon request. | Efficiency at irradiation 200 W/m²: 99.3 % of STC efficiency or higher. | Tolerances for V_{OC} and I_{SC} are 3 %.

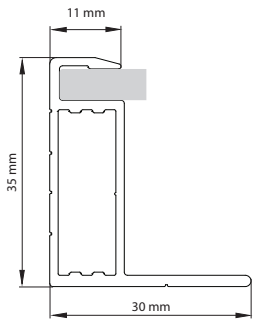
Dimensions



Matrix



Frame Cross Section



Thermal Specifications:

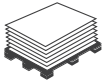
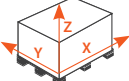



| | | |
|---------------------------------|----------|--------------------|
| Current Temperature Coefficient | α | + 0.05 %/°C |
| Voltage Temperature Coefficient | β | - 0.25 %/°C |
| Power Temperature Coefficient | γ | - 0.29 %/°C |
| NOCT | | 42 °C (±3 °C) |
| Temperature Range | | - 40 °C to + 85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

Mechanical Specifications:

| | |
|-----------------------------------|---|
| Length x Width x Thickness | 1,975 x 1,134 x 35 mm |
| Weight | 23.5 kg |
| Solar Cells | 84 Half-Cut c-Si / 182.25 x 105 mm |
| Junction Box / Connectors / IP | 3 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. |
| Glass | 3.2 mm AR coating tempered glass / high-transparency / low-iron content |
| Certified Test Load (Snow / Wind) | 7,000 Pa / 2,400 Pa |
| Impact Resistance | Hailstone / Ø 35 mm / 83 km/h (51 mph) |

Tolerances of values are ±5 %. Unspecified product properties remain under full discretion of BISOL Production.

Packaging Information:

| | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| Modules per Pallet | Packing Dimension: Length/Width/Height | Stackable | Packing Weight | Tot. Nr. of Pallets/ Load |
| 30 | 200 x 116 x 128 cm | 3 pallets | 732 kg | 26 |