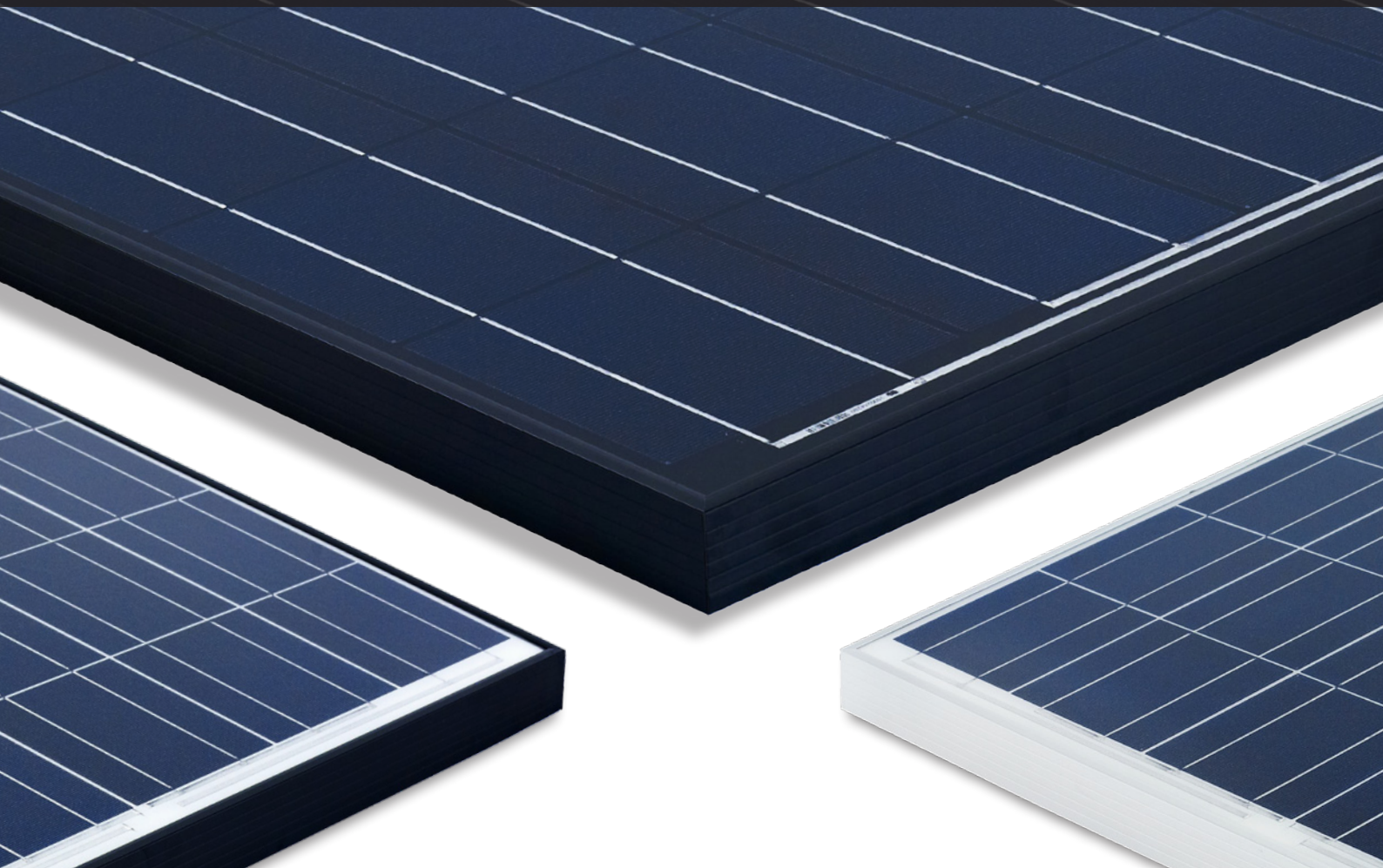


# BISOL Premium Series

Multicrystalline PV Modules / BMU 250-270 Wp



Made in EU



Strictly positive power output tolerances



PID free



All relevant certificates



Module presorting for a more profitable investment



Extremely low degradation



Module efficiency up to 16.5%

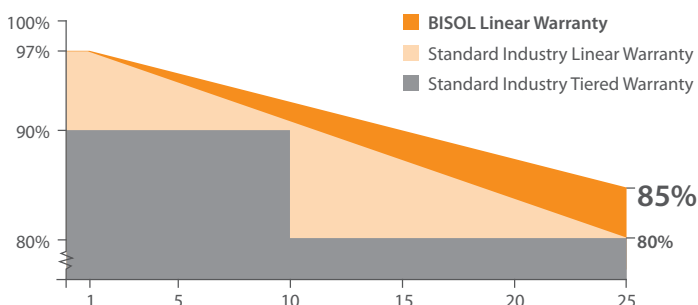


13% higher real-life performance



Excellent performance in low light conditions

## Warranties:



Linear warranty  
85% power output in 25<sup>th</sup> year

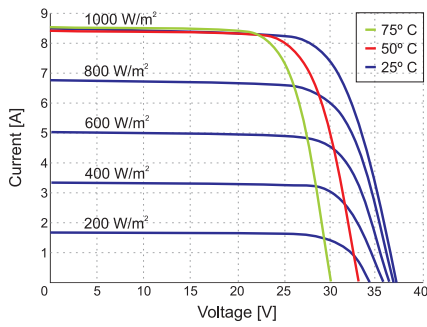


Product warranty  
10 years

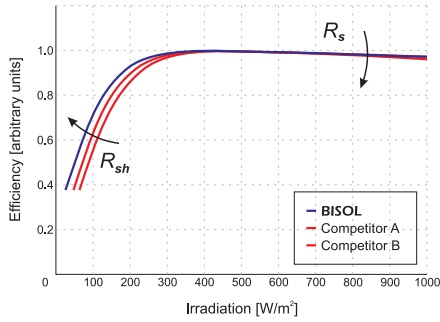
## Certificates:



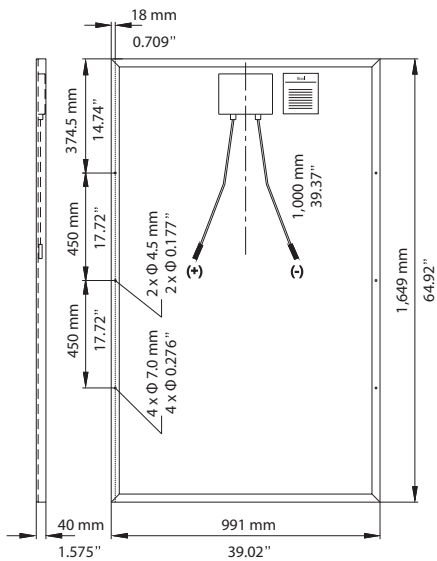
### I-V Curve at Various Irradiation Levels and Various Cell Temperatures



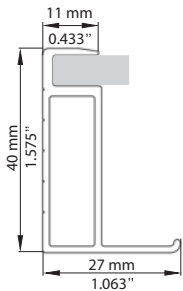
### Effective Efficiency



### Dimensions



### Frame cross section



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

| Module Type             |               | BMU-250                       | BMU-255 | BMU-260 | BMU-265 | BMU-270 |
|-------------------------|---------------|-------------------------------|---------|---------|---------|---------|
| Nominal Power           | $P_{MPP}$ [W] | 250                           | 255     | 260     | 265     | 270     |
| Short Circuit Current   | $I_{SC}$ [A]  | 8.75                          | 8.85    | 8.90    | 9.00    | 9.10    |
| Open Circuit Voltage    | $V_{OC}$ [V]  | 38.4                          | 38.7    | 39.0    | 39.3    | 39.6    |
| MPP Current             | $I_{MPP}$ [A] | 8.25                          | 8.35    | 8.40    | 8.50    | 8.60    |
| MPP Voltage             | $V_{MPP}$ [V] | 30.3                          | 30.5    | 30.9    | 31.2    | 31.4    |
| Solar Cell Efficiency   | $\eta_C$ [%]  | 17.1                          | 17.5    | 17.8    | 18.1    | 18.5    |
| Module Efficiency       | $\eta_M$ [%]  | 15.3                          | 15.6    | 15.9    | 16.2    | 16.5    |
| Power Output Tolerance  |               | 0/+ 5 W                       |         |         |         |         |
| 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 decreases to 95.7 % of efficiency at STC.

### Electrical Specifications @ NOCT (AM1.5, 800 W/m², Cell Temperature 44 °C):

| Module Type           |               | BMU-250 | BMU-255 | BMU-260 | BMU-265 | BMU-270 |
|-----------------------|---------------|---------|---------|---------|---------|---------|
| Nominal Power         | $P_{MPP}$ [W] | 185     | 189     | 192     | 196     | 200     |
| Short Circuit Current | $I_{SC}$ [A]  | 7.08    | 7.15    | 7.20    | 7.28    | 7.36    |
| Open Circuit Voltage  | $V_{OC}$ [V]  | 35.1    | 35.3    | 35.6    | 35.9    | 36.1    |
| MPP Current           | $I_{MPP}$ [A] | 6.68    | 6.76    | 6.81    | 6.88    | 6.96    |
| MPP Voltage           | $V_{MPP}$ [V] | 27.7    | 27.9    | 28.2    | 28.5    | 28.7    |

### Thermal Specifications:

|                                 |          |                    |
|---------------------------------|----------|--------------------|
| Current Temperature Coefficient | $\alpha$ | + 4.9 mA/°C        |
| Voltage Temperature Coefficient | $\beta$  | - 121 mV/°C        |
| Power Temperature Coefficient   | $\gamma$ | - 0.35 %/°C        |
| NOCT                            |          | 44 °C              |
| Temperature range               |          | - 40 °C to + 85 °C |

### Mechanical Specifications:

|                            |  |
|----------------------------|--|
| Length x Width x Thickness | 1,649 mm x 991 mm x 40 mm (64.92" x 39.02" x 1.575")         |
| Weight                     | 18.5 kg (40.79 lbs)  |
| Solar Cells                | 60 multi c-Si in series / 156 mm x 156 mm (6+)"              |
| Junction Box / Connectors  | Three bypass diodes / MC4 compatible / IP 67                 |
| Frame                      | Anodized AL with drainage holes / rigid anchored corners     |
| Glass                      | 3.2 mm tempered glass / high-transparency / low-iron content |
| Packaging                  | 16 or 25 modules per pallet / stackable 3 pallets high       |
| Certified Nominal Load     | 5,400 Pa   |
| Impact resistance          | Hailstone / $\Phi$ 25 mm / 83 km/h (51 mph)                  |

Dealer Information

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

