



Let the Light be Life™

# New PHOTOVOLTAIC MODULES High Power Plus IS4000P

60 cells

Istar Solar® photovoltaic modules IS4000P HIGH POWER PLUS Series with powers up to 285Wp are composed of 60 high efficiency monocrystalline cells 156x156mm, ensuring a high power density in a limited space: up to 176Wp per square meter and therefore an efficiency of 17,60%.

## CONSTRUCTION FEATURES

|                              |   |
|------------------------------|---|
| <b>Cells</b>                 | 60 high efficiency 3 busbar monocrystalline cells 156x156mm   |
| <b>Encapsulant</b>           | EVA (Ethylene vinyl acetate)  |
| <b>Glass</b>                 | Solar glass, low-iron, transparent, tempered and textured to allow a maximum concentration and diffusion of light on the solar cells, even in low sunlight levels worldwide.  |
| <b>Backside</b>              | White multilayer polyester film. It contributes to a further protection of the modules against the action of climatic agents like humidity and dust and provides a total electrical isolation.<br>On-demand modules can be realized with black backsheet.       |
| <b>Frame</b>                 | Anodized aluminium frame with drainage holes and provided with 8 holes for mounting (certified wheel-base) that allows the modules to be extremely easy to install.<br>On request, the frames can be supplied in the following colours: black, bronze and gold. |
| <b>Junction box</b>          | Tyco waterproof with protection degree IP65, and equipped with 3 by-pass diodes.  |
| <b>Cables and connectors</b> | Tyco. N° 2 cables 4 mm <sup>2</sup> x 1 mt with +/- connectors  |
| <b>Warranty</b>              | <b>Power of modules: 90% 12 years - 80% 25 years</b><br><b>Product: 10 years</b>  |



## Modules Certifications

EUROTEST  
TÜV 12-PPV-0000108/07-TIC  
TÜV Factory Inspection

CEI/EN 61215 Ed.2  
CEI/EN 61730 1-2 (2007)

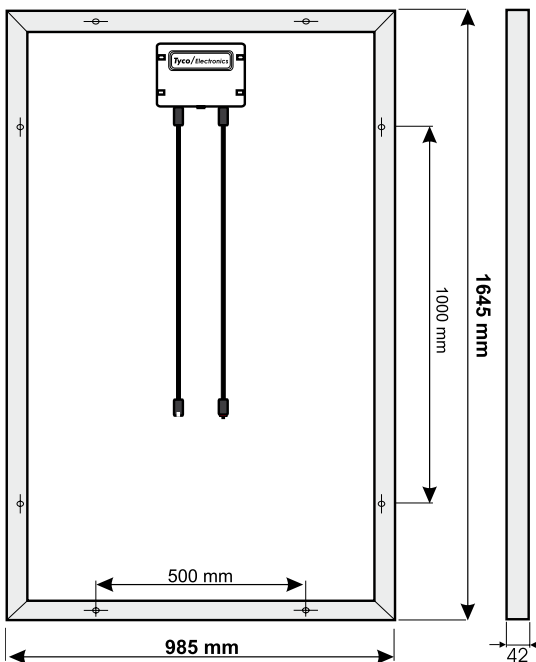


## Company Certifications



MADE IN ITALY

## Electrical and technical data (STC: 1000 W/m<sup>2</sup> - 25°C - AM 1,5)



|                                 | IS4000P   |         |         |         |         |         |
|---------------------------------|---|---------|---------|---------|---------|---------|
|                                 | 260 Wp  | 265 Wp  | 270 Wp  | 275 Wp  | 280 Wp  | 285 Wp  |
| <b>Pmax</b>                     | 260 Wp  | 265 Wp  | 270 Wp  | 275 Wp  | 280 Wp  | 285 Wp  |
| <b>Imp</b>                      | 8,27 A  | 8,30 A  | 8,41 A  | 8,47 A  | 8,53 A  | 8,59 A  |
| <b>Isc</b>                      | 8,87 A  | 8,91 A  | 8,95 A  | 9,00 A  | 9,06 A  | 9,12 A  |
| <b>Voc</b>                      | 37,70 V   | 37,80 V | 37,90 V | 38,20 V | 38,40 V | 38,60 V |
| <b>Vmp</b>                      | 31,40 V   | 31,90 V | 32,20 V | 32,50 V | 32,80 V | 33,20 V |
| <b>Cell efficiency</b>          | 18,40%  | 18,70%  | 18,90%  | 19,20%  | 19,40%  | 19,60%  |
| <b>Module efficiency</b>        | 16,00%  | 16,40%  | 16,70%  | 17,00%  | 17,30%  | 17,60%  |
| <b>NOCT</b>                     | 45 °C   |         |         |         |         |         |
| <b>Maximum system voltage</b>   | 1000 V  |         |         |         |         |         |
| <b>Temperature range</b>        | -40 a +85 °C  |         |         |         |         |         |
| <b>Hail resistance</b>          | up to Ø25mm to 83 km/h                                |         |         |         |         |         |
| <b>Relative humidity</b>        | up to 100%  |         |         |         |         |         |
| <b>Dimensions</b>               | 1645 x 985 x 42 mm (±2)                               |         |         |         |         |         |
| <b>Dimensions of laminate</b>   | 1637 x 977 x 5 mm (±2)                                |         |         |         |         |         |
| <b>Weight</b>                   | 22 Kg framed - 19 Kg laminate                         |         |         |         |         |         |
| <b>Power tolerance</b>          | ± 3%  |         |         |         |         |         |
| <b>Temperature coefficient</b>  | Isc(α)0.07%/°C - Voc(β) -0.34%/°C - Pmax(γ) -0.45%/°C |         |         |         |         |         |
| <b>Surface load certificate</b> | 5400 Pa (5,4kN/m <sup>2</sup> )                       |         |         |         |         |         |

Datasheet complies with the requirements EN 50380  
Istar Solar® reserves the right to change the features of modules without previous notice

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