



New  
Transparent

# PHOTOVOLTAIC MODULE

## IS3000P BUILDING INTEGRATION

36 cells

Let the Light be Life™



The **new** photovoltaic modules **IS3000P BIPV series** are a new production of transparent frameless modules specifically made for the building integration market. They are composed of only **36** high efficiency polycrystalline solar cells **156x156mm** produced with the most innovative technologies and with antireflecting coating.

Thanks to **New Ultratron®** technology developed by **Istar Solar®** all the modules IS series have a greater credit and an higher power output. This enable us to guarantee very good module performances, power and working conditions even if in lower sunlight levels worldwide.

Thanks to the extrabright transparent glass and the wide spaces among the cells, a great percentage of light can pass through the modules.

These modules are manufactured by using only top quality and certified materials. They are in fact made of solar cells encapsulated between sheets of ethylene vinyl acetate (EVA), highly transparent antishock **4mm tempered glass** which protects the module against mechanical and climatic effects, such as hail, ice etc...

The high transparent tedlar back sheet contributes to a further protection of the module and the electrical contacts against the action of climatic agents like humidity.

On request the modules can be supplied with a **strong anodized aluminium frame** with corners and 8 pre-drilled mounting holes.

The modules are equipped with two special waterproof **junction boxes Tyco (TÜV Certified)** with protection degree **IP65**, with two PG7 cable glands and by-pass diodes which protect the module against "hot spot" effects.

These modules can be used especially for building integration, as well as architectural facades, both as stand alone and grid connected systems.

Tyco cables are available on request.

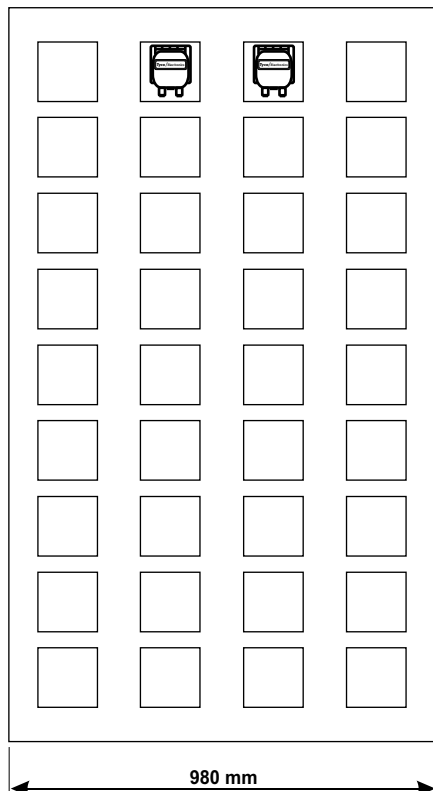
Modules manufactured according to:

IEC 61215  
Protection class II



**Power modules warranty:**  
90%  
80%

**Period**  
12 years  
25 years



### Electrical and Technical Data (STC: 1000 W/sqm - 25°C - AM 1,5)

	IS3000P BIPV
<b>Peak power (Wp)</b>	<b>Watts 135</b>
<b>Nominal voltage</b>	Volts 12
<b>Current at maximum power (Imp)</b>	<b>Amps 7,5</b>
<b>Short circuit current (Isc)</b>	<b>Amps 8,3</b>
<b>Open circuit voltage (Voc)</b>	Volts 21,8
<b>Voltage at maximum power (Vmp)</b>	<b>Volts 18</b>
<b>Nominal operating cell temp.(NOCT)</b>	°C 46 (±2)
<b>Maximum system voltage</b>	Volts 1000
<b>Temperature range</b>	°C -40 to +85
<b>Hail resistance and impact speed</b>	up to 25mm at 23m/s
<b>Relatives humidity</b>	up to 100%
<b>Dimensions</b>	mm 1640 x 980 x 5 (±2mm)
<b>Weight</b>	Kg 19
<b>Power tolerance</b>	±5%
<b>Temperature coefficient (β)</b>	(Voc) mV/°C -72

Datasheet complies with the requirements EN 50380

Istar Solar® reserves the right to change the features of modules without notice

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