



Let the Light be Life™

# New PHOTOVOLTAIC MODULES High Power IS4000P

54 cells

Istar Solar® photovoltaic modules IS4000P Series 3BB with powers from 200 to 220Wp are composed of 54 high efficiency 3 bus bar polycrystalline cells 156x156mm, ensuring a high power density in a limited space: up to 154Wp per square meter and therefore an efficiency of 15,4%.

## CONSTRUCTION FEATURES

<b>Cells</b>	54 high efficiency polycrystalline cells 156x156mm 3 bus bar
<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 lower sunlight levels worldwide.
<b>Backside</b>	White multilayer polyester film. It contributes to a further protection of modules against the action of climatic agents like humidity and provides a total electrical isolation. 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. On request, the frames can be supplied in the following colours: black, bronze and gold.
<b>Junction box</b>	Tyco with protection degree IP65, and equipped with 3 by-pass diodes.
<b>Cable and connectors</b>	Tyco. N° 1 cable 4 mm <sup>2</sup> x 2 mt with +/- connectors
<b>Warranty</b>	<b>Power of modules: 90% 12 years - 80% 25 years</b> <b>Product: 10 years</b>

## Modules Certifications

C01-R1 09C328003  
TÜV 11-PPV-0000108/05-W02-TIC  
TÜV Factory Inspection

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



## Company Certifications



Dasa-Rägister  
EN ISO 14001:2004  
IE-0112-01



Dasa-Rägister  
EN ISO 9001:2008  
IQ-0112-03



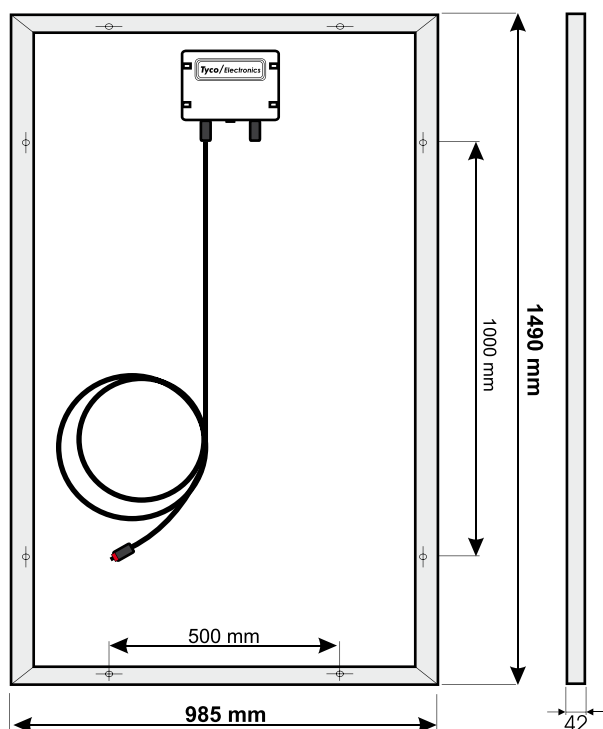
Dasa-Rägister  
BS OHSAS 18001:2007  
IS-0112-01



MADE IN ITALY



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



	IS4000P			
	210 Wp	215 Wp	220 Wp	225 Wp
<b>Pmax</b>	210 Wp	215 Wp	220 Wp	225 Wp
<b>Imp</b>	7,69 A	7,84 A	7,90 A	7,98 A
<b>Isc</b>	8,26 A	8,31 A	8,47 A	8,54 A
<b>Voc</b>	32,9 V	33,1 V	33,5 V	33,8 V
<b>Vmp</b>	27,3 V	27,4 V	27,9 V	28,2 V
<b>Cell efficiency</b>	16,20%	16,40%	17,00%	17,40%
<b>Module efficiency</b>	14,30%	14,60%	15,00%	15,40%
<b>NOCT</b>	45 °C			
<b>Maximum system voltage</b>	1000 V			
<b>Temperature range</b>	-40 to +85 °C			
<b>Hail resistance</b>	up to Ø 25mm to 83 km/h			
<b>Relatives humidity</b>	up to 100%			
<b>Dimensions</b>	1490 x 985 x 42 mm (±2)			
<b>Dimensions of laminate</b>	1483 x 977 x 5 mm (±2)			
<b>Weight</b>	19 Kg framed - 16 Kg laminate			
<b>Power tolerance</b>	± 3%			
<b>Temperature coefficient</b>	Isc(α) +0,06%/°C - Voc(β) -0,31%/°C - Pmax(γ) -0,37%/°C			
<b>Surface load certificate</b>	5400Pa (5,4 kN/m <sup>2</sup> )			

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

**ISTAR SOLAR® S.r.l.**

Industrial Area Tito Scalo - 85050 Tito Scalo (PZ) ITALY

Tel. +39 0971 485157 Fax +39 0971 651970 E-Mail: info@istarsolar.com Web: www.istarsolar.com