



New

PHOTOVOLTAIC MODULES

IS4000P

54 cells

Let the Light be Life™



The **new** photovoltaic modules **IS4000P series**, are composed of 54 high efficiency polycrystalline solar cells **156x156mm** produced with the most innovative technologies of isotropic texturization and antireflecting coating.

These modules can be produced with power from **180 to 200Wp**, with an **high power density up to "137Wp per square meter and an high efficiency of 13.7%"**.

Istar Solar® manufactures top quality modules by using only guaranteed and certified materials. These modules 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 particular texturization of the glass enables a maximum concentration and diffusion of the light on the solar cells. This enable us to guarantee very good module performances, power and working conditions even if in lower sunlight levels worldwide. The white tedlar back sheet contributes to a further protection of the module and the electrical contacts against the action of climatic agents like humidity.

Furthermore the **strong anodized aluminium frame** with corners and 8 pre-drilled mounting holes makes the module extremely easy to install.

The modules are equipped with a special waterproof junction box **Tyco** (TÜV Certified) with protection degree **IP55**, with 3 by-pass diodes which protect the module against "hot spot" effects.

These modules have been designed especially for grid connected systems and photovoltaic roofs.


The modules are equipped with 2 Tyco cables 4mm² of 1,05mt/each for quick modules connections.

Front side	Temperated, texturized glass thickness 4mm
Encapsulant	EVA (Ethylene vinil acetate)
Back side	White Tedlar
Frame	Anodized aluminium frame with drainage holes
Junction box	Tyco IP55 with 3 by pass diodes
Cable and connectors	Tyco 2 x1.05mt with +/- connectors

Certification:

C01 07C328001 - TÜV 08 PPV 00001/02 TIC

C02 07C328001 - TÜV 08 PPV 00001/03 TIC

CEI/EN 61215 2ndEd. TÜV  **Safety Class II**

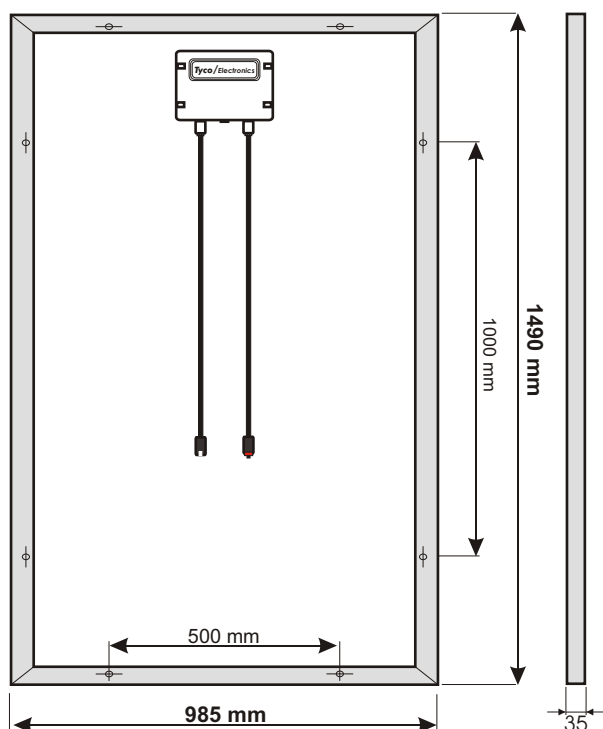
Power modules warranty:

90% 12 years

80% 25 years

Product Warranty: 5 years

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



	IS4000P		
Pmax	180 Wp	190 Wp	200 Wp
I _{mp}	7,00 A	7,25 A	7,50 A
I _{sc}	7,80 A	8,00 A	8,25 A
V _{oc}	32,0 V	32,4 V	32,8 V
V _{mp}	25,7 V	26,2 V	26,7 V
Solar cells efficiency	14,00%	14,60%	15,50%
Modules efficiency	12,35%	13,00%	13,70%
NOCT	45 °C		
Maximum system voltage	1000 V		
Temperature range	-40 to +85 °C		
Hail resistance	up to 25mm / 90 km/h		
Relatives humidity	up to 100%		
Dimensions	1490 x 985 x 35 mm (±2)		
Weight	19 Kg		
Power tolerance	± 3%		
Temperature coefficient	I _{sc} (α)0.07%/°C - V _{oc} (β) -0.34%/°C - P _{max} (γ) -0.45%/°C		

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