



New

PHOTOVOLTAIC MODULES

IS3000P

36 cells

Let the Light be Life™



The **new** photovoltaic modules **IS3000P series**, are composed of **36** 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 **125 to 140Wp**, with an **high power density up to "140Wp per square meter and an high efficiency of 14%"**.

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 2 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 2 by pass diodes
Cable and connectors	Tyco 2 x1.05mt with +/- connectors

Certification:

C01 07C328001 - TÜV 08 PPV 00001/02 TIC

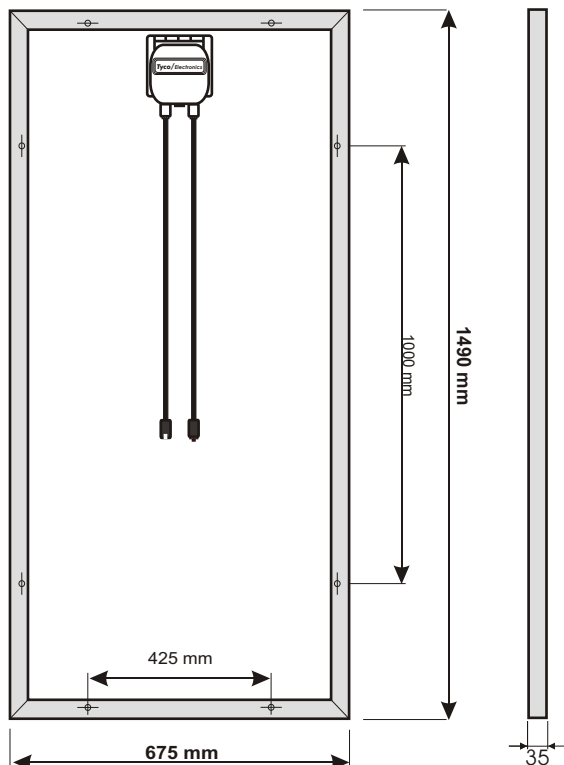
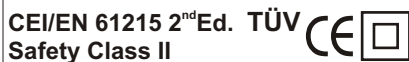
C02 07C328001 - TÜV 08 PPV 00001/03 TIC

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)

	IS3000P			
	125 Wp	130 Wp	135 Wp	140 Wp
Pmax	7,30 A	7,40 A	7,50 A	7,80 A
Imp	8,00 A	8,10 A	8,25 A	8,30 A
Isc	21,4 V	21,6 V	21,8 V	22,2 V
Voc	17,6 V	17,8 V	18,00 V	18,3 V
Vmp	14,50%	14,60%	15,00%	16,00%
Solar cells efficiency	12,50%	13,00%	13,50%	14,00%
Modules efficiency	45 °C			
NOCT	1000 V			
Maximum system voltage	-40 to +85 °C			
Temperature range	up to 25mm / 90 km/h			
Hail resistance	up to 100%			
Relatives humidity	1490 x 675 x 35 mm (±2)			
Dimensions	13 Kg			
Weight	± 3%			
Power tolerance	Isc(α)0.07%/°C - Voc(β) -0.34%/°C - Pmax(γ) -0.45%/°C			
Temperature coefficient				

Datasheet complies with the requirements EN 50380

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

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