



Let the Light be Life™

New

PHOTOVOLTAIC MODULES IS4000P

36 cells

Istar Solar® photovoltaic modules **IS4000P Series** 3bb with powers from **140Wp to 150Wp** are composed of 36 high efficiency 3 busbar polycrystalline cells **156x156mm**, ensuring a high power density in a limited space: up to 150Wp per square meter and therefore an efficiency of **15%**.

CONSTRUCTION FEATURES

Cells	36 high efficiency polycrystalline cells 156x156mm 3busbar
Encapsulant	EVA (Ethylene vinyl acetate)
Glass	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.
Backside	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. On-demand modules can be realized with black backsheet.
Frame	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.
Junction box	Tyco waterproof with protection degree IP65, and equipped with 2 by-pass diodes.
Cables and connectors	Tyco. N° 2 cables 4 mm ² x 1 mt with +/- connectors
Warranty	Power of modules: 90% 12 years - 80% 25 years Product: 10 years



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



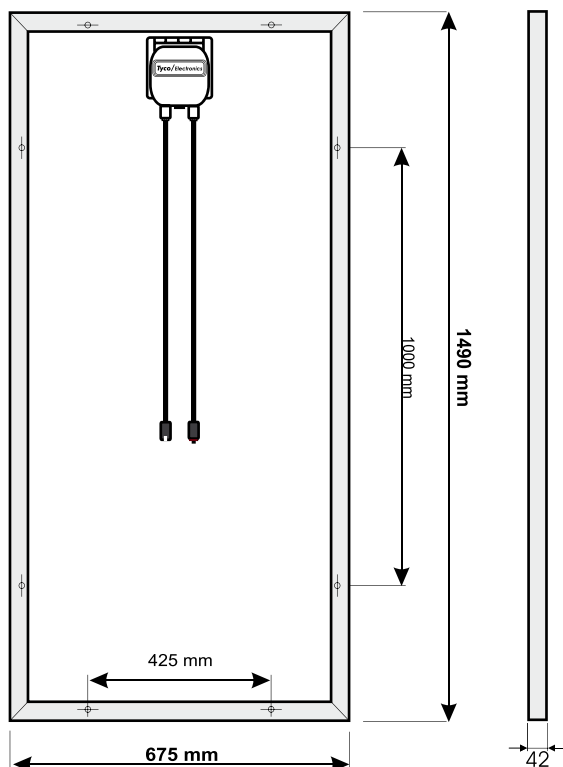
Dasa-Rägister
EN ISO 9001:2008
IQ-0112-03



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 - 12V		
	140 Wp	145 Wp	150 Wp
Pmax	140 Wp	145 Wp	150 Wp
I_{mp}	7,66 A	7,81 A	7,98 A
I_{sc}	8,31 A	8,47 A	8,54 A
V_{oc}	22,1 V	22,3 V	22,5 V
V_{mp}	18,3 V	18,6 V	18,8 V
Solar cells efficiency	16,40%	17,00%	17,40%
Modules efficiency	14,00%	14,50%	15,00%
NOCT	45 °C		
Maximum system voltage	1000 V		
Temperature range	-40 to +85 °C		
Hail resistance	up to Ø25mm to 83 km/h		
Relative humidity	up to 100%		
Dimensions	1490 x 675 x 42 mm (±2)		
Weight	13 Kg		
Power tolerance	± 3%		
Temperature coefficient	I _{sc} (α) +0,06%/°C - V _{oc} (β) -0,31%/°C - P _{max} (γ) -0,37%/°C		
Surface load certificate	5400Pa (5,4 kN/m ²)		

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

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