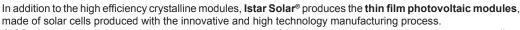


POTOVOLTAIC MODULE 154000C

Thin Film CIGS



CIGS photovoltaic modules, which do not have to be confused with amorphous modules, have an excellent energy conversion and a low degradation over time, ensuring a production of more than 25years.





Cells	72 CIGS thin film cells made of Copper, Indium, Gallium and diSelenide. These cells have a light absorption of 99% in a few microns of thickness, with an higher sensitivity of the whole solar spectrum, thus increasing the voltage and efficiency of the cells and therefore with an higher performance at lower solar radiations.				
Encapsulant	Special sheets of transparent thermoplastic.				
Glass	Solar glass, low-iron, transparent, tempered and textured to allow a maximum concentration and diffusion of light on the solar cells, even if in lower sunlight levels worldwide.				
Backside	Sheet of White Special Multilayer Polyester/Aluminium. It contributes to a further protection of modules against the action of climatic like humidity and provides a total electrical isolation.				
Frame	Anodized aluminum provided with 8 holes for mounting (certified wheel-base) that allows the modules to be extremely easy to install.				
Junction box	Tyco with protection degree IP65 and two PG7 ${f cable\ glands},$ and equipped with 2 by-pass diodes				
Cable and connectors	Tyco. N° 2 Cables 4 mm² x 120 cm with +/- connectors .				
Warranty	Potenza moduli: 90% 12 anni - 80% 25 anni				

Dasa-Rägister EN ISO 14001:2004

IE-0112-01

Modules Certifications

C01 16582-100925 TÜV 11-PPV-0000108/04-W01-TIC **TÜV Factory Inspection**

CEI/EN 61646 CEI/EN 61730 1-2 (2007)



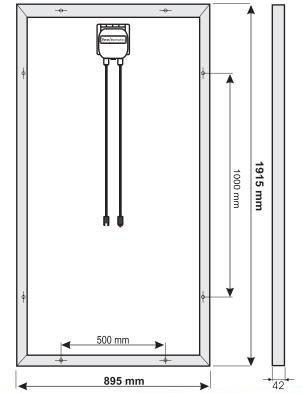
Prodotto: 10 anni





Company Certifications





Electrical and Technical Data (STC: 1000 W/sqm - 25°C - AM 1,5) **Tüv** <u>EuroTes</u>t





	IS4000C				
Pmax	175 Wp	180 Wp	185 Wp	190 Wp	195 Wp
Imp	5,45 A	5,50 A	5,55 A	5,60 A	5,70 A
Isc	6,30 A	6,35 A	6,40 A	6,40 A	6,50 A
Voc	43,5 V	44,6 V	44,8 V	45,8 V	46,8 V
Vmp	32,1 V	32,7 V	33,3 V	33,6 V	34,4 V
NOCT	45 °C				
Maximum system voltage	1000 V				
Temperature range	-40 to +85 °C				
Hail resistance	up to Ø 25 mm to 83 km/h				
Relatives humidity	up to100%				
Dimensions	1915 x 895 x 42 mm (± 2)				
Dimensions of laminate	1908 x 886 x 5 mm (± 2)				
Weight	22 Kg fra	ramed - 19 Kg laminate			
Power tolerance	± 3%				
Temperature coefficient	Isc (α) -0,03%/°C Voc(β) -0,33%/°C Pmax(γ) -0,43%/°C				
Surface load certificate	5400Pa (5,4kN/m²)				

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