



Let the Light be Life™

# PHOTOVOLTAIC MODULES

## IS50P - IS60P

*36 cells*



The **new** photovoltaic modules **IS50P - 50Wp** and **IS60P - 60Wp** are composed of **36** high efficiency polycrystalline solar cells produced with the most innovative technologies of isotropic texturization and antireflecting coating.

**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, 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 pre-drilled mounting holes makes the module extremely easy to install.

The modules are equipped with a special waterproof **junction box Tyco** with protection degree **IP55**, with two connector plugs and two by-pass diodes which protect the module against hot spot effects.

**Certification:**

C01 07C328001 - TÜV 08 PPV 00001/02 TIC  
C02 07C328001 - TÜV 08 PPV 00001/03 TIC

CEI/EN 61215 2<sup>nd</sup> Ed. TÜV  Safety Class II

Power modules warranty:

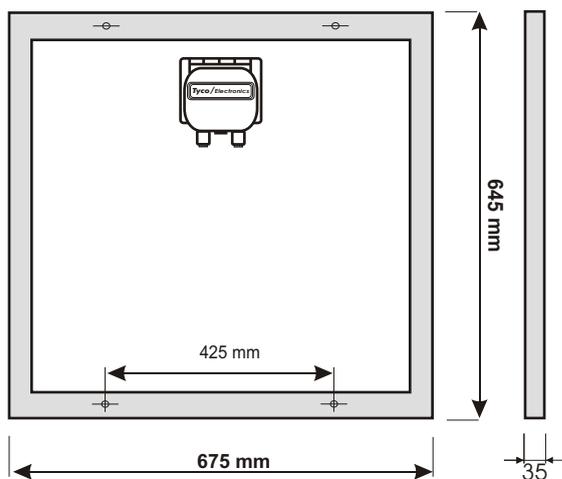
90% 12 years

80% 25 years

Product Warranty: 5 years

### Electrical and Technical Data

(STC: 1000 W/sqm - 25°C - AM 1,5)



	IS50P	IS60P
<b>Peak power (Wp)</b>	<b>Watts 50</b>	<b>Watts 90</b>
Nominal voltage	Volts 12	Volts 12
<b>Current at maximum power (Imp)</b>	<b>Amps 2,9</b>	<b>Amps 3,4</b>
<b>Short circuit current (Isc)</b>	<b>Amps 3,4</b>	<b>Amps 3,9</b>
Open circuit voltage (Voc)	Volts 21,2	Volts 21,4
<b>Voltage at maximum power (Vmp)</b>	<b>Volts 17,3</b>	<b>Volts 17,6</b>
Nominal operating cell temperature (NOCT)	°C 45 (±2)	
Maximum system voltage	Volts 1000	
Temperature range	°C -40 to +85	
Hail resistance and impact speed	up to 28mm / 90 km/h	
Relative humidity	up to 100%	
Dimensions	mm 645 x 675 x 35 (±2mm)	
Weight	Kg 6	
Tolerance on technical data	±5% output values	

Datasheet complies with the requirements EN 50380

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

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