

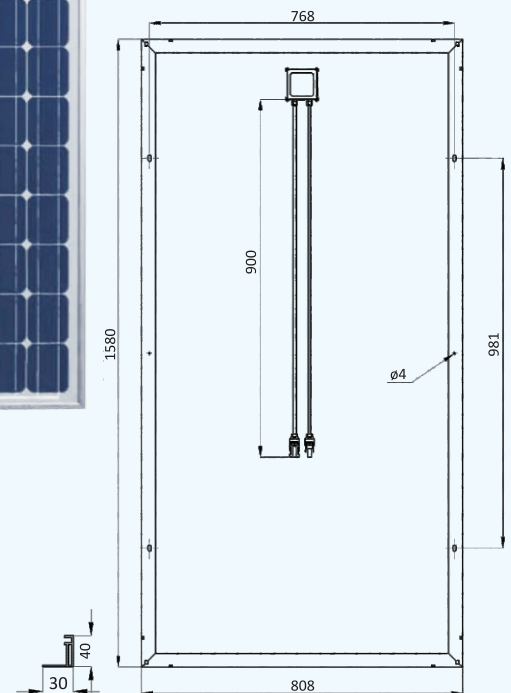
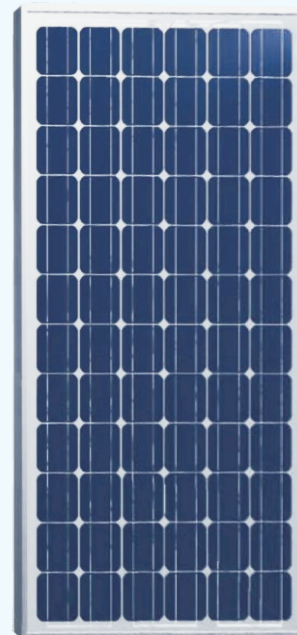


Photovoltaic modules

Made in EU

Crystalline modules with fully positive tolerance.
Yield guaranteed for 25 years.
Individual flash test record for each module.

Electrical specifications:	
Maximum power Pmax	190 Wp
Tolerance	+ 3% - 0%
Voltage at max power Vmp	37,30 V
Current at max power Imp	5,09 A
Open circuit voltage Voc	44,50 V
Short circuit current Isc	5,48 A
Cell efficiency	17,7 %
* STC (Standard test conditions) : Irradiation 1000 W/m ² , ambient temperature 25°C, Spectre AM 1.5	
Physical specifications:	
Overall dimensions	1580 x 808 x 40 mm
Number of cells	72 (6 x 12)
Size of cells	125 x 125 mm
Weight	14,8 kg
Type of cell	monocrystalline
Frame	aluminum
Junction box	TÜV certified
Back closing	TPT
Front closing	Tempered glass 3,2 mm
Length of cable	900 mm
Temperature coefficients:	
Temp. coeff. of Pmax	- (0,5 ± 0,05) % / °C
Temp. coeff. of Vmp	- 0,38 % / °C
Temp. coeff. of Imp	+ 0,1 % / °C
Temp. coeff. of Voc	- (0,3 ± 0,05) % / °C
Temp. coeff. of Isc	- (0,065 ± 0,015) % / °C
Limitations:	
Max. system voltage	1000 V DC
Temperature range	-40 °C - +85/ °C
Max. physical load	2400 Pa



Warranty and certificates:

Workmanship and material	5 years
90% Efficiency	20 years
80% Efficiency	25 years
Certified for accordance to IEC 61215:2005 & EN 61730:2007	

