

SE 250/60P SE 260/60P

SE 270/60P SE 280/60P

POLYCRYSTALLINE SOLAR MODULE



Solar-Energy

New product line from Solar-Energy highly efficient polycrystalline photovoltaic module with a guarantee of highest quality.

Basic advantages:



Fully automated production line

High precision and repeatability of product.



3-step quality control

Product quality control present at each step of production including electroluminescence testing for micro-cracks.



High resistance 8000 Pa*



Upper power tolerance guaranteed



Minimized PID effect

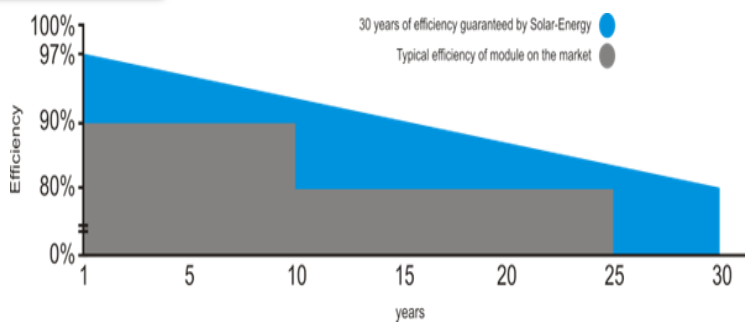


Extended guarantee period

12 years guarantee for the product and 30 years guarantee for performance.

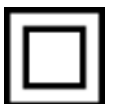


GUARANTEE BY SOLAR-ENERGY



QUALITY AND CERTIFICATES

- ISO 9001:2015 – Quality Management System for the Design and Production of Photovoltaic Modules
- ISO 14001:2015 – Environmental Management System
- IEC 61215:2005 and IEC 61730:2004 Class A granted by TÜV NORD
- Compliance with CE
- Made in Poland



* Resistance for special orders, for standard orders we guarantee 5400 Pa resistance.

** The guarantee details are included in the guarantee conditions available at www.solar-energy.pl in a document named: "Specific conditions of warranty and guarantee for modules manufactured by the Solar-Energy S.A. company".

SOLAR-ENERGY S.A.
 HEADQUARTERS:
 PAŃSKA St 73
 00-832 WARSAW, POLAND
 PRODUCTION FACILITY:
 PRZEMYSŁOWA St 1
 84-214 BOŻEPOLE WIELKIE

E-MAIL: BIURO@SOLAR-ENERGY.PL
 WWW: WWW.SOLAR-ENERGY.PL

TEL.: +48 (22) 487-51-78
 FAX: +48 (22) 465-14-87

VERSION 2017

SE 250/60P SE 260/60P

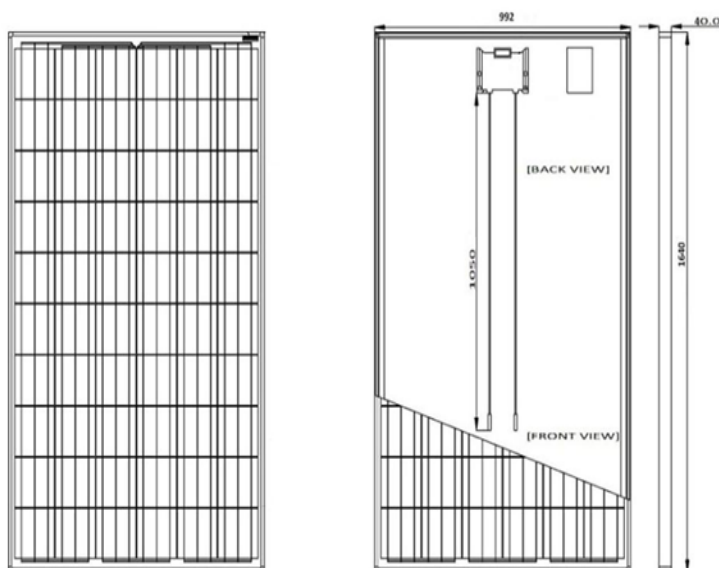
SE 270/60P SE 280/60P

POLYCRYSTALLINE SOLAR MODULE



Solar-Energy

MODULE SCHEME



MECHANICAL CHARACTERISTIC

Solar cells	6" polycrystalline cells, 3 bus bar
Cells dimensions	156 x 156 [mm]
No. of cells	60 pcs. (10 x 6)
Internal connection	serial connection
Length	1640 ± 1 [mm]
Width	992 ± 1 [mm]
Thickness	40 [mm]
Nominal mass	18 [kg]
Junction box	Class of protection IP 67, granted by TÜV Rheinland
Wire	2 x solar wires 4 [mm ²], 1000 [mm]
Connectors	MC4
Diodes	3 by-pass diodes
Frame	Anodized aluminum
Glass	3,2 [mm], tempered, prismatic mat-mat
Encapsulation	copolymer EVA
Backsheet	multilayer polyester

ELECTRICAL CHARACTERISTICS

MODULE TYPE	SE 250/60P	SE 260/60P	SE 270/60P	SE 280/60P
*PERFORMANCE AT STC				
Maximum power rating [Pmpp]	250 Wp	260 Wp	270 Wp	280 Wp
Open circuit voltage [Uoc]	38,7 V	38,8 V	38,9 V	39,0 V
Short circuit current [Isc]	8,7 A	8,9 A	9,1 A	9,3 A
Maximum power voltage [Umpp]	30,5 V	31,4 V	32,3 V	33,2 V
Maximum power current [Impp]	8,2 A	8,3 A	8,4 A	8,5 A
Tolerance of Pmpp	0/+5Wp			
Module efficiency	15,4 %	16,0 %	16,7 %	17,3 %

*Measured at 1000 W/m², module temperature 25°C, AM 1,5

SYSTEM CHARACTERISTIC

Maximum system voltage	1000 V DC
Maximum protection	15 A

TEMPERATURE CHARACTERISTIC

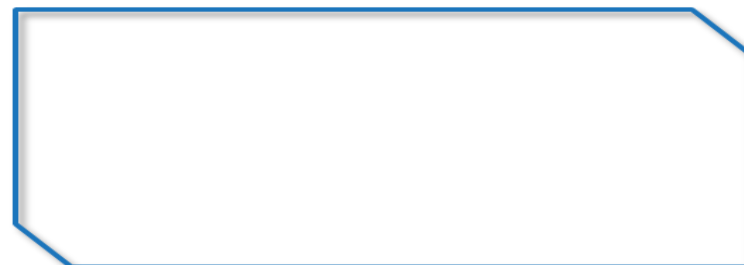
NOCT*	43 ± 2 °C
Temperature rating	-40°C to +90 °C
Current temperature coefficient [Isc]	0,05 %/°C
Voltage temperature coefficient [Uoc]	-0,33 %/°C
Power temperature coefficient [P]	-0,39 %/°C

*Measured at 800 W/m², air temperature 20°C, wind velocity 1 m/s

PACKING

Method of packing	Modules per pallet	Truck
Cardboard box Pallet dim.: 1,7 x 1,2	26	30 pallets / 780 modules

PARTNER

**Electrical device!**Do not install by yourself!
Contact authorized installer.

SOLAR-ENERGY S.A.
HEADQUARTERS:
PAŃSKA ST 73
00-832 WARSAW, POLAND
PRODUCTION FACILITY:
PRZEMYSŁOWA ST 1
84-214 BOŻEPOLE WIELKIE

E-MAIL: BIURO@SOLAR-ENERGY.PL
WWW: WWW.SOLAR-ENERGY.PL

TEL.: +48 (22) 487-51-78
FAX: +48 (22) 465-14-87

VERSION 2017