

SUNTECH – STP260-24/Vb / STP270-24/Vb / STP280-24/Vb

Solar modules are the key element of every solar power system as they convert sunlight into electricity. Their quality, reliability and performance are therefore critical for the yield and profit of your system. Polycrystalline solar modules provide reliable performance based on more than 40 years of use and have a long track-record of delivering excellent yields.

Phoenix Solar selects the best solar modules from leading international manufacturers based on strict quality criteria. They are tested by our own technical experts as well as independent institutes. This provides you with investment security whilst optimising your return at the same time.



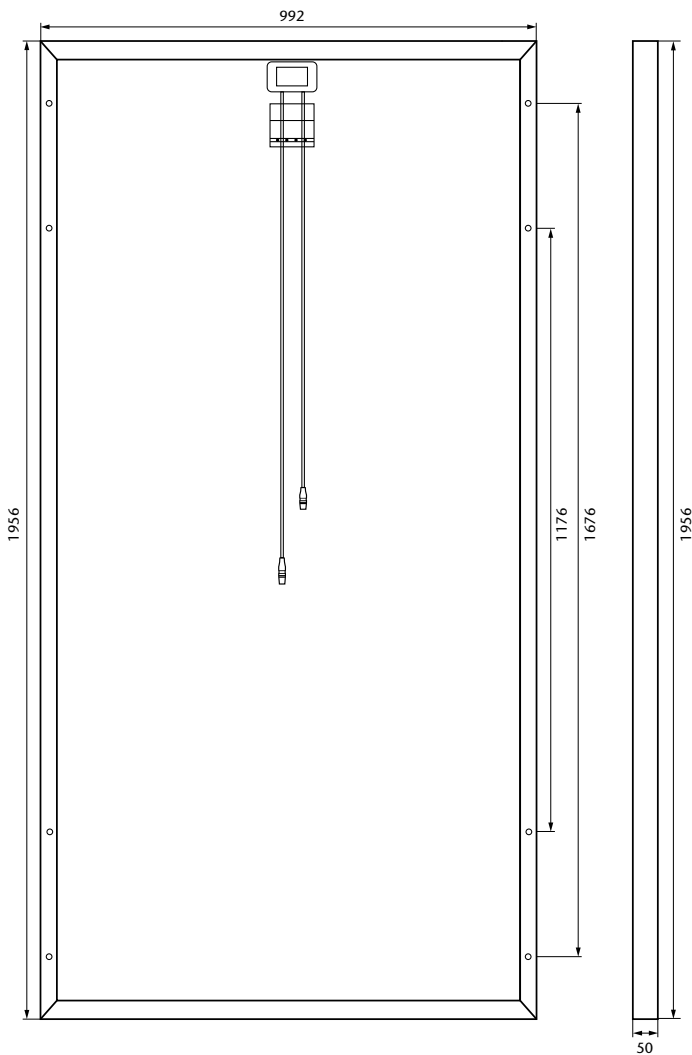
The advantages at a glance:

- 260, 270 and 280 Wp power output available
- Tested independently from the manufacturer
- Polycrystalline high-performance modules with an efficiency of up to 14.4 %
- 25-year performance guarantee* at 80 % of the minimal rated output power
- 12-year performance guarantee* at 90 % of the minimal rated power output
- Large format and ideal module dimensions for maximum efficiency during installation
- Robust, non-corroding aluminium frame and tempered glass for more output, high impact-resistance and protection against hail, snow, ice and storms

* The manufacturer's warranty conditions apply

Experience that pays

Phoenix Solar or your local Phoenix Solar partner individually match the solar modules and all additional system components to ensure that you get the ideal system to meet your requirements. All of our sales partners have a considerable amount of expertise and many years of experience in solar technology and have been personally chosen by us according to the strictest quality criteria.



Mechanical parameters

Length [mm]	1956
Width [mm]	992
Depth [mm]	50
Depth with connection socket [mm]	50
Weight [kg]	23
Connection socket (manufacturer/ number of diodes)	Suntech/3
Positive cable (manufacturer/length [mm]/ cable cross-section [mm ²])	Lapp/800/4
Negative cable (manufacturer/length [mm]/ cable cross-section [mm ²])	Lapp/1200/4
Plug connector (manufacturer/type)	Multi-contact/MC4
Front cover (material/thickness [mm])	Glass/3
Cell type (quantity/technology)	72/polycrystalline
Cell embedding (material)	Ethylene vinyl acetate (EVA)
Rear cover (material/thickness [mm])	TPT
Frame (material/profile type)	Aluminium/ hollow profile with drainage holes

Warranties

Product warranty	5-year product limited warranty*
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Performance guarantee 12 years at 90 % of the minimal rated power output*
 25 years at 80 % the minimal rated power output*

* The manufacturer's warranty conditions apply

Qualifications and Certificates

IEC 61215

TÜV safety class II



Suntech Power was founded in 2001 in China and already ranks among today's leading manufacturers of solar cells and modules worldwide. The company operates its own ultra-modern development department and works according to strict quality guidelines. Suntech places special emphasis on continuously optimising the ratio between manufacturing costs and module performance, thus increasing the profitability of solar power over the long-term.



Electrical parameters

Electrical parameters for STC (1000 W/m², 25 (+/- 2)°C, AM 1.5 according to EN 6090-4)

Article number	100732	100735	100734
Power output [P_{mpp}]	260	270	280
Power output tolerances [%]	+/- 3	+/- 3	+/- 3
Efficiency [%]	14.40	14.40	14.40
Max. voltage V_{mpp} [V]	34.80	35.00	35.20
Max. current I_{mpp} [A]	7.47	7.71	7.95
Open circuit voltage V_{oc} [V]	44.00	44.50	44.80
Short circuit current I_{sc} [A]	8.09	8.20	8.33

Electrical parameters for 800 W/m², NOCT, AM 1.5 NOCT = Nominal Operating Cell Temperature, cell temperature under nominal operating conditions

Max. power output P_{max} [Wp]	204	n/a	n/a
Max. voltage V_{max} [V]	33.20	n/a	n/a
Max. current I_{mpp} [A]	6.15	n/a	n/a
Open circuit voltage V_{oc} [V]	42.60	n/a	n/a
Short circuit current I_{sc} [A]	6.63	n/a	n/a
Reverse current loading capability I_R [A]		3 x I_{sc}	
Max. permissible system voltage V_{max} [V]		1000	

Parameters of the thermal characteristics

NOCT [° C]	45 +/-2
Temperature coefficient of the short circuit current I_{sc} [%/K]	+ 0.055
Temperature coefficient of the open circuit voltage V_{oc} [%/K]	- 0.34
Temperature coefficient of the MPP power P_{mpp} [%/K]	- 0.47

Operating conditions

Max. operating temperature [° C]	- 40 to + 85
Max. snow load [Pa]	according to IEC 61215 Ed. 1
Max. wind load [Pa]	according to IEC 61215 Ed. 1

PLANNING GUIDE

The module array displayed below applies specifically to Suntech STP260-24/Vb, STP270-24/Vb and STP280-24/Vb modules, including the distances for connecting them together (using the Tecto-Sun mounting system, scale: 1:100).

Notes on use: Draw a scale diagram of the roof (1:100) with all the details (windows, dormer windows, chimneys,

etc.) on transparent paper and place it over this module array. Copy the intersecting points of the grid on the roof diagram and connect them with a line. If the roof diagram is larger than the grid, it can be moved as required. Doing this allows you to determine the maximum allocation of modules while taking shading and objects on the roof into account.

Number of modules	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Module array dimensions	1,01	2,02	3,03	4,04	5,05	6,06	7,07	8,08	9,09	10,10	11,11	12,12	13,13	14,14
1														
1,97														
2														
3,93														
5,90														
3														
7,86														
4														
9,83														
5														
9,83														
Length (m)	Subject to modifications and errors													
	Width (m)													

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