

 **SUNTECH**
BE UNLIMITED



***Imagine a company
that takes real life as
a criterion for its
product development.***

This is Suntech.

Imagine a company that can cope with any of the billions of sunbeams using a portfolio of only 3 products.

This is Suntech.

Suntech builds perfect modules, for instance, for a single-family house in Bavaria, for a farm at the North Sea, for a solar power plant in Spain, and for a school in Tanzania. In other words: We build modules that optimally adapt to the living and sun conditions in your region.

Wd (poly)

High performance, small format,
flexible and perfect for small roofs



STP 255-20/Wd

- 1,640 × 992 × 35 mm
(64.6 × 39.1 × 2.0 inches)
- 245-255 Wp nominal power
- Polycrystalline cells

WdS (mono)

This module can be used universally
and versatilely for every roof



STP 265S-20/Wd

- 1,640 × 992 × 35 mm
(64.6 × 39.1 × 2.0 inches)
- 255-265 Wp nominal power
- Monocrystalline cells

Ve

High performance and large format,
ideal for large surfaces



STP 305-24/Ve

- 1,956 × 992 × 40 mm
(77.0 × 39.1 × 2.0 inches)
- 295-305 Wp nominal power
- Polycrystalline cells

For further information on electrical data, please refer to the data sheets. All values indicated in this brochure are subject to change without prior announcement. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.



*produced in accordance with CSA



Did you know that Suntech modules cover the energy consumption of 4 million 4 person households worldwide?
– We assist every single customer to make the most out of sunlight for everyday life.

Imagine a company that can build modules that anticipate the unanticipated.

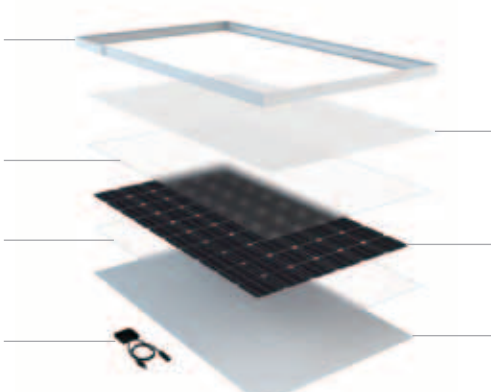
This is Suntech.

It may be possible that the sun is always shining in the test laboratory of many solar manufacturers. In the real world, however, it looks different. There may be cloudy or

foggy days, dusk and dawn, trees around the house that cast shadows, snow, wind and sometimes dirt on the modules. That is why it is highly important for us that our

modules excel international test standards on a regular basis. But it is even more important that they prove themselves in real life: on the roofs of our customers.

These components ensure that our modules are reliable and efficient:



Rigid frame: a hollow chamber profile ensures rigidity and high performance

High-tech material EVA: highly transparent to provide an extremely stable connection of components

Water-proof junction box: certified pursuant to IP67 (the standard being IP65), high waterproofness and ruggedness

State-of-the-art solar glass: anti-glare and self-cleaning for maximum output and low maintenance effort

Ground-breaking cells: developed and produced by Suntech for high and reliable yields

Solid back sheet: high level of UVA resistance – a solid basis delivers solid output



Did you know that, on average, the sun shines for just 4.2 hours a day in Central Europe?
– That is why we do not test our modules under perfect laboratory conditions, but in real life environments.

Imagine a company that can guarantee you 25 years of sunny prospects.

This is Suntech.



Industry leading linear warranty

With Suntech's linear warranty you receive one of the best warranties in the industry. In the first year 97%, thereafter, for the second year to the twenty-fifth year a maximum decrease of the module's nominal power output of 0.7% per year. Thereby one ends with 80.2% nominal power guaranteed in the 25th year after the defined warranty starting date.



10-year product warranty

Suntech relies on certified quality in minute detail. For this reason, we can give a warranty of 10 years on the stability of all components.



Did you know that our power output warranty is transferable?
– Even if the ownership changes, the warranty remains in place in full – and aligns with any situation.

Imagine a company that is outmatched in its solar output by only one: the sun.

This is Suntech.

We are very proud that our modules have efficiencies of up to 16% under identical conditions and are thus clearly above the

average. To put it another way: Our modules simply generate more solar energy from the same sunlight.



Excellent module efficiencies

Roofs often have limited space for solar systems. The higher the solar module's efficiency, the better the surface efficiency of the entire system. Our solar modules offer above-average efficiencies.

Suntech's innovative cell design

Arrow-shaped power line: more power can be produced

Finer power lines: higher cell efficiencies for more yield through less shading effects

Usage of ultra-modern silver paste: higher conductivity of electricity

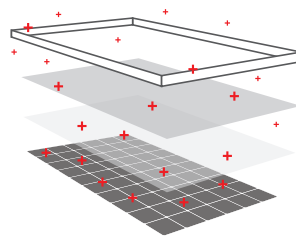


PID Resistant

Improved cell design and production process ensure the power output performance under harsh environment. High volume resistant EVA could limit the movement of the sodium ions from the cell surface to glass.

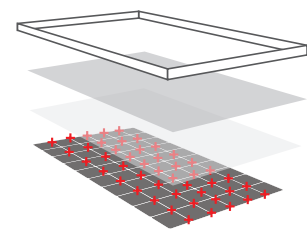
PID Resistant

Industry Standard



Low resistance:
more energy gets lost

Suntech



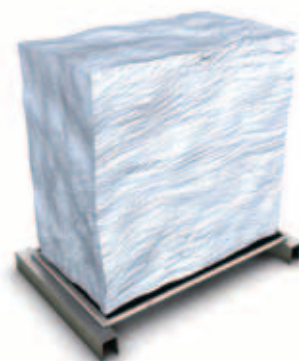
High resistance:
no energy gets lost



Resistant against wind and snow

The rigid hollow chamber profile frame ensures high rigidity of the Suntech modules. They withstand snow loads of up to 550 kg/m² (112.7 lbs./sq ft) and wind speeds of up to 162km/h (101 mph) – clearly exceeding the provisions of IEC.

Load test: 2,5 m wet snow = 890 kg

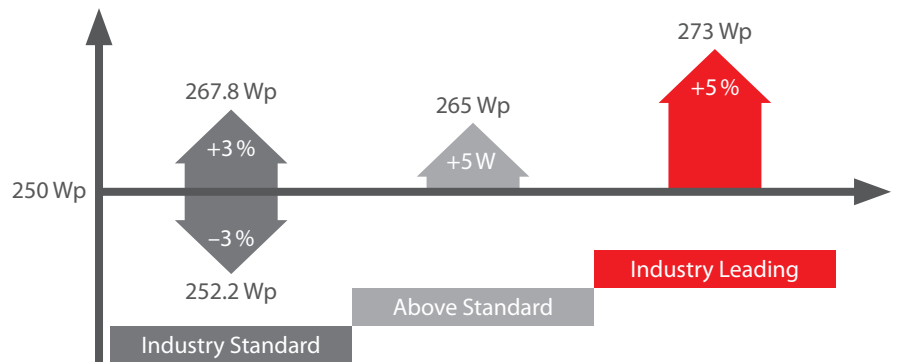




Positive power tolerance

No matter how accurate work is performed – the actual power of modules can always deviate from the nominal power. Many manufacturers state a power tolerance of +/- 3%. At Suntech, the power tolerance is always positive: You always get the power indicated, and up to 5% more.

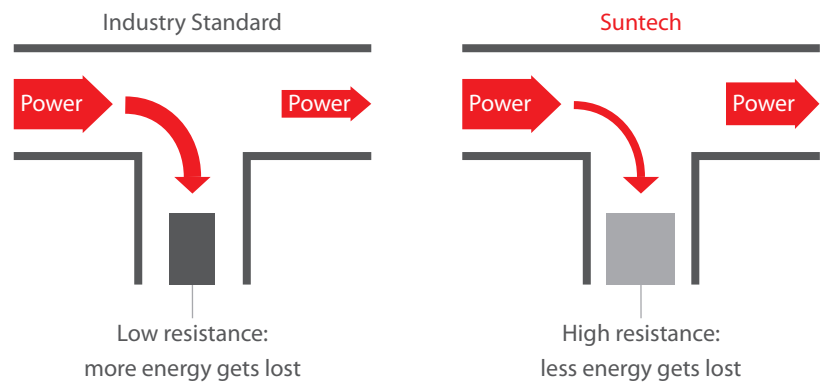
Impact of Power Tolerance on Nominal Power



Excellent weak light performance

Shadows of trees, clouds, dusk and dawn, fog, or winter – there are many causes for weak light. But Suntech modules are well prepared for any case: In a comparison test with a leading manufacturer, our modules produced 3% more energy under weaker light conditions.

Weak Light Behavior



Tested for toughest environmental conditions

Particularly in agricultural holdings, modules are subject to high loads of ammonia. Therefore, Suntech equips the modules with a highly resistant back sheet. Tested and approved by TÜV Rheinland (German Technical Inspection Association) and VDE.



Did you know that Suntech modules are all perfectly set not only for sunny days, but also for snow days, cloudy days, foggy days, and stormy days? – This enables you to optimally utilize them for clean energy.

Imagine a company that can face the challenge of the energy crisis anywhere in Europe. **This is Suntech.**

Finow Tower I

Suntech's modules work reliably also on a large scale – as proven by the solar power plant "Finow Tower I" in Brandenburg, Germany. The energy yield is far beyond the expectations and produces nearly 15% more than anticipated.



Energy yield
26.55 megawatts



CO₂ savings
279,000 t in 20 years



Over-performance
15%



© Solarhybrid AG

Rooftop, Kraichtal (Germany)

The system installed by our partner, WIRSOL SOLAR AG, also reliably produces power far beyond our expectations. The average system performance was up to 12% above the calculated performance.



Energy yield
8.2 kWp



CO₂ savings
86 t in 20 years



Over-performance
12%



© WIRSOL SOLAR AG



Did you know that every European releases 122 Olympic pools of CO₂ every year?
– For this reason, Suntech further expands its presence in all European markets.

Solar Powered Rooftop, Asian Development Bank Headquarters in the Philippines

The 2,040 Suntech photovoltaic panels occupying 6,640 square meters on the roof of ADB's main building will provide up to four percent of the ADB headquarters' electricity consumption. Primarily it will offset a portion of the building's air-conditioning, lighting and computer systems. The power harvested from solar energy is the equivalent of providing enough energy for 245 families in Metro Manila.



Energy yield

617 MWh annually



CO₂ savings

6,140 t in 20 years



© Asian Development Bank AG

Sangri Solar Farm, the Closest to the Sun in China

Suntech's 10MW Sangri Solar Farm was constructed high in the Tibetan Plateau in China. At several thousand feet above sea level, the project was built to withstand the harsh temperature changes and climate of the high Plateau. In rural Tibet, the mountainous terrain prevents the grid from reaching the widely dispersed population. The Sangri Solar farm is able to bring clean solar electricity to these areas throughout every season of the year, just as Suntech engineers had designed it to do.



Energy yield

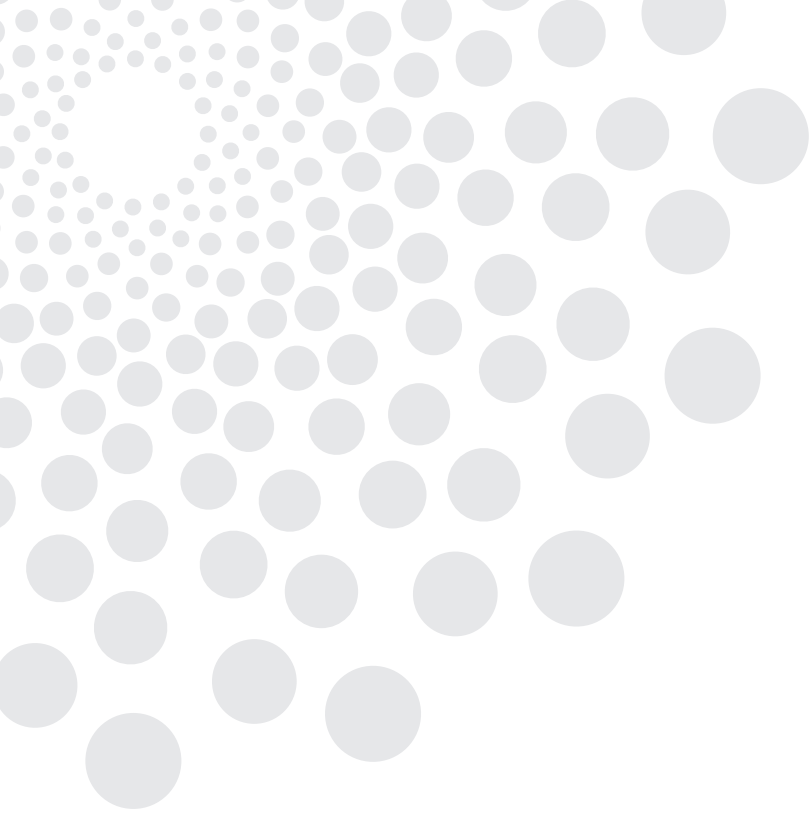
17,000,000kw.h/year



CO₂ savings

811,293 trees





Wuxi Suntech Power Co., Ltd.

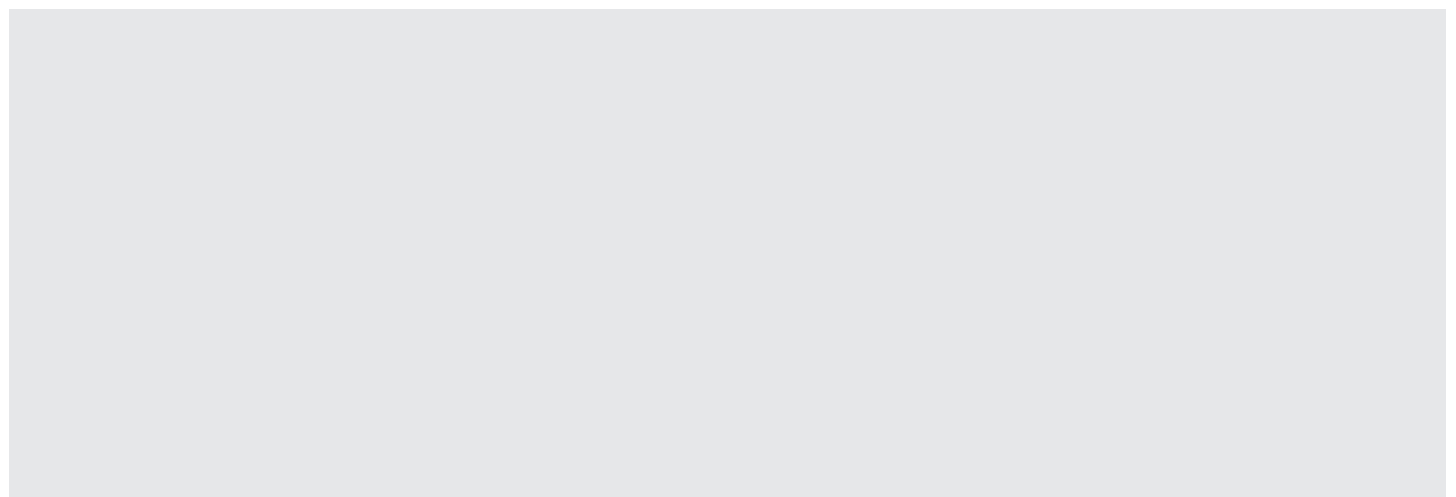
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