



**Choose Suntech**  
choose Australian technology



## ***choose a green future***

Suntech Power was founded by Dr Zhengrong Shi, an Australian citizen and one of the world's leading scientists in solar technology. The company's vision is to build a green 21st century where everyone has access to clean, sustainable and reliable solar energy.

Suntech's latest panel technology such as Pluto™ delivers on many fronts - high efficiency, high stability and high power output - a real achievement in fighting global warming. At Suntech we walk the talk, for example our global head office is powered by a 1 MW building integrated solar power system supplying 80% of the electricity requirements.

Suntech panels are packed in recycled cardboard with the key components of panels being aluminium, glass and silicon having excellent recyclable properties. Suntech is also a member of the PV CYCLE Association, which is establishing a voluntary take-back and recycling program for end-of-life PV modules.



## ***choose Australian technology***

Suntech Power has one of the largest solar research & development departments in the world. We employ more than 350 world-class solar scientists and researchers across three continents including Australia.

With the acquisition of CSG Solar located in Botany (NSW), Suntech Power is now supporting pioneering Australian research. This investment follows on from existing close collaborations with world leading PV research through the University of NSW and other world class Universities.

Suntech's latest Pluto technology is based on a technology developed in Australia, at the University of NSW. Pluto technology has delivered world record PV efficiency of 25% for individual cells in laboratory conditions.

Adaptation of this technology by Suntech, combined with further innovation in manufacturing, has resulted in routine conversion efficiencies in manufacturing of 19.2% on monocrystalline Pluto cells, compared to 16.5% for conventional processing.

Also - did you know that the purchase of Suntech PV modules returns a royalty to Australia? Purchasing Suntech products further strengthens investment in PV research and development in Australia.

# Suntech® Solar Modules The Right Choice.

Choosing solar panels is an important decision and making the wrong decision can be costly. Some solar panels may look similar, but looks can be deceiving...they are not all the same. Not all panels are created equally.

You can trust Suntech, the world's #1 crystalline silicon module manufacturer, to deliver reliable performance over time. Here are some of the reasons Suntech is the right choice.



## Industry Leading Transferable Warranty<sup>1</sup>

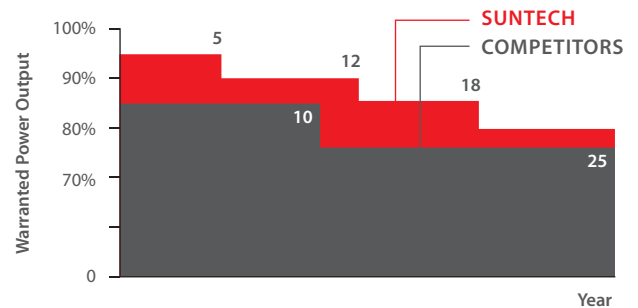
### Your benefit: up to 28% Higher Output Guaranteed

- Standard industry warranties cover 90% over 10 years and 80% over 25 years from the lower end of the power tolerance (Pmin)
- Suntech provides more continuity adding 95% and 85% levels starting from Nameplate (Pnom)
- Improved Peak Power Warranty adds 95% and 85% levels: 95% at Year 5, 90% at Year 12, 85% at Year 18, 80% at Year 25\*\*

<sup>1</sup>Please refer to Suntech Product Warranty for details

<sup>2</sup>Based on competitor warranty schedule and startpoint

Suntech warrants 6 – 28% more power than competitors<sup>2</sup>



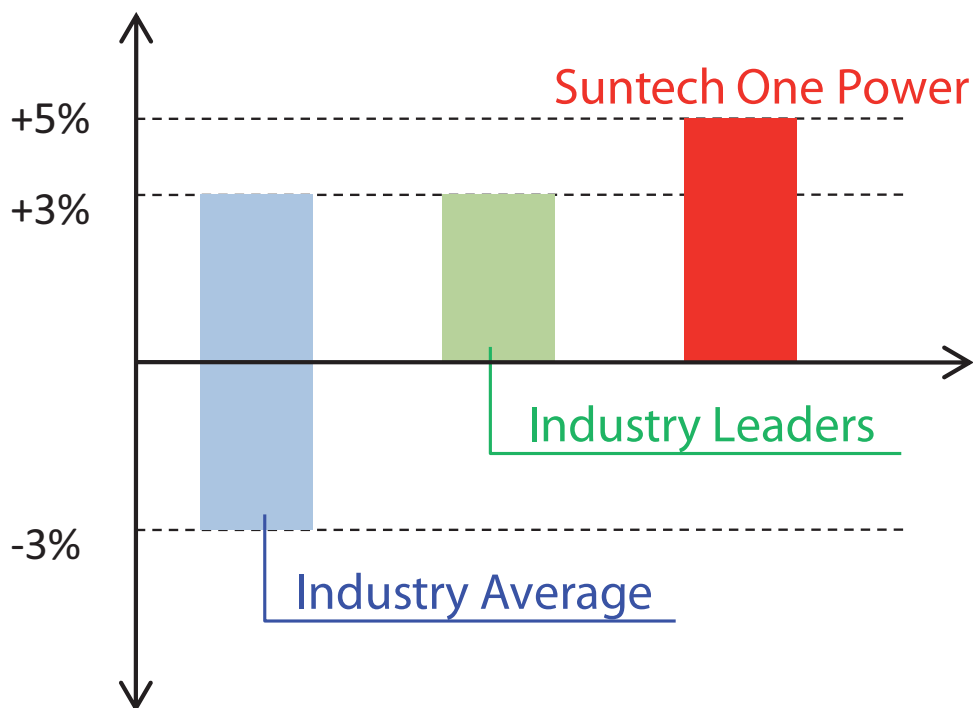
E.g. if a competitor warrants at Pmin, and their tolerance is +/-3%, the start point effectively becomes 90% of 97% or 87.3% (as shown)

Suntech	SunPower	Kyocera	First Solar	Yingli
95% / 5 years 90% / 12 years 85% / 18 years 80% / 25 years	90% at 12 years 80% at 25 years	90% at 10 years 80% at 20 years	90% at 10 years 80% at 25 years	90% at 10 years 80% at 25 years
Pnom	Pmin	Pmin	Pnom	Pmin
Warranted Power Advantage:	<b>Suntech +8%</b>	<b>Suntech +27.9%</b>	<b>Suntech +3.5%</b>	<b>Suntech +6.7%</b>

## Positive Power Tolerance

**Your benefit: You get what you pay for and maybe more**

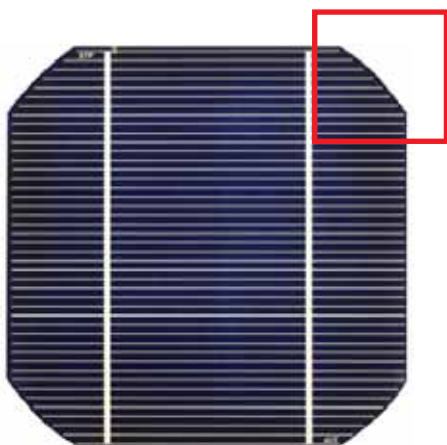
- Other brands have a negative tolerance that could result in less power for money spent. Suntech delivers the power you expect...or more.
- 0-5% positive tolerance means on average our customers get more power.



## Jumbo Cells

**Your benefit: More power – more module efficiency**

- Suntech monocrystalline modules with Jumbo Cells provide MORE POWER in the same module footprint
- More elegant appearance



Traditional monocrystalline cell



Suntech Jumbo monocrystalline cell

# Performance Edge Cell Design

## Your benefit: More reliable

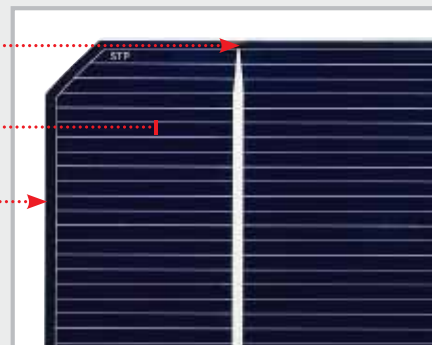
- Optimized design with thinner lines, closer spacing, and tapered bus bars equal better performance
- Edge frame creates additional current path for improved reliability

### Improved Efficiency and Reliability:

Arrow-shaped bus bar

Finer, closer fingers increase efficiency

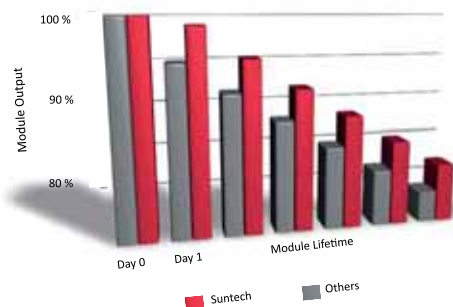
Extra current path for added reliability



# Reduced Light Induced Degredation LID

## Your benefit: 2-4% more energy year to year

- Solar cells in other brands degrade 3-5% upon exposure to sunlight after installation
- Suntech's proprietary processes reduce LID in monocrystalline solar panels to less than 1%



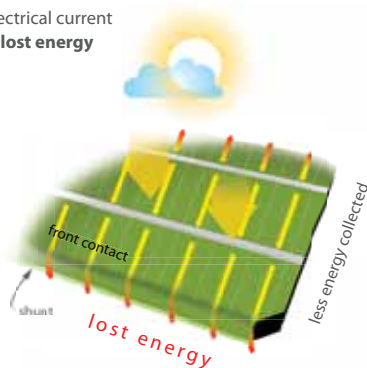
# Better Low Light Performance

## Your benefit: Up to 2.5% higher energy yield

Suntech's patented edge-isolation process and solar glass with improved light transmission ensure superior performance under weak light conditions

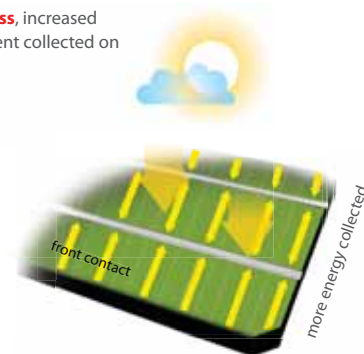
### Ordinary Modules

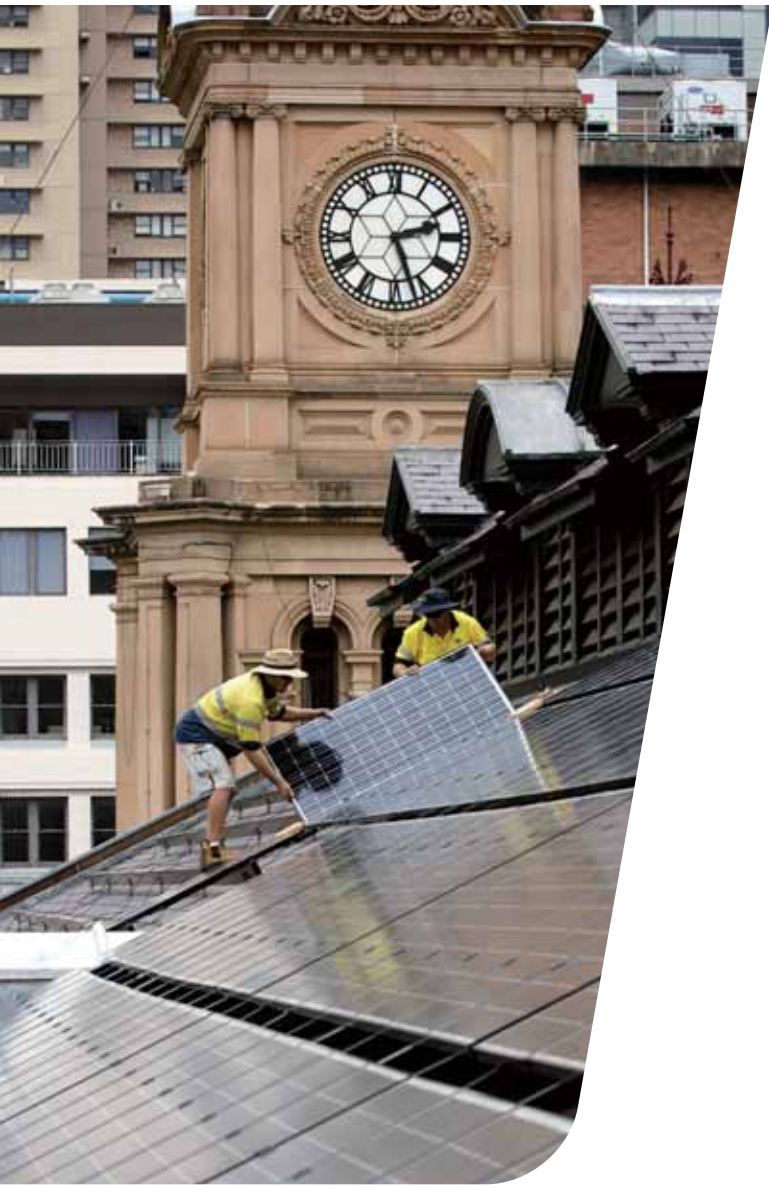
a **shunt** is an alternate path for electrical current along the cell edge that results in **lost energy**



### Suntech Modules

with Suntech's **edge isolation process**, increased shunt resistance results in more current collected on front contact and **higher efficiency**





*At Suntech Power we are passionate about delivering solar power via our distributor network.*

*Our installers are the key to our success. They provide reliable and professional advice, installation services and system backup.*

Suntech has long standing relationships with an expanding client base worldwide. Today Suntech ranks among the top three PV module suppliers in the largest solar markets such as Germany, the United States and China.

Suntech focuses solely on the manufacture and distribution of solar products. This dedication has allowed us to produce very high standard modules with minimum recalls and long, reliable warranties.

Our industry leading output warranties means that Suntech panels are guaranteed to produce at least 90% of the rated output in 12 years time and at least 80% in 25 years time. Suntech has the size to back their warranty 100%, every time, for many decades to come.

But we are not the only ones who think Suntech research and products are superior. Frost and Sullivan the prestigious international research firm renowned for their independent analysis of "Best Practices" selected Suntech as the 2008 Solar Development Company of the Year.

In Australia, Suntech is one of the foremost Australian suppliers of solar products and has been selected for a number of key Australian flagship projects such as the 381 kW, Sydney Theatre Company system and the Sydney Town Hall project.



## ***Suntech — at a glance***

### **Strong organisation**

- World's #1 crystalline silicone module manufacturer;
- Financial strength and strong balance sheet;
- Nearly a decade in operation with 12 000 employees worldwide;
- 700 staff employed in quality control;
- One of the largest R & D teams with over 350 solar scientists working in research centres on 3 continents including Australia;

### **Extensive track record**

- 3.4GW installed product around the world;
- Achieved 1.8GW module production capacity by 2010;
- Top 3 brand in the largest solar markets in the world;
- Over 15 000 Homes in Australia powered with Suntech solar panels;
- Preferred product for financiers of commercial solar projects;

### **Top quality product**

- Grid connect panels feature (0/+) tolerance only;
- 25 years power output warranty;
- Transferable warranty in case of ownership change;
- Suntech's warranty claims are amongst the lowest in the industry;

### **World-class research**

- Local Australian research and development via CSG Solar, Botany. Ongoing collaboration with University of NSW (UNSW) and other world leading Universities;
- Development of world class high efficiency Pluto technology with the UNSW;
- Continuous pipeline of new technologies.

[www.suntech-power.com](http://www.suntech-power.com)

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