



SUNTECH



**AUSTRALIA'S SOLAR PIONEER
IS YOUR PERFECT PARTNER.**

**VDE, THE HIGHEST
LEVEL OF QUALITY
CERTIFICATION**

The VDE Quality Tested Certification is the seal of approval for a level of quality control that goes beyond existing standards in the PV industry. This level of commitment to quality cannot be introduced overnight. It takes a culture of continuous improvement and years of practice and testing to achieve this outcome.



VDE QUALITY TESTED CERTIFICATION

The exacting standards of VDE set Suntech apart from our competitors, ensuring unmatched reliability and consistency of solar energy production.

Australia's solar industry regulator, the Clean Energy Council, recognises the VDE Quality Tested seal over any other third party quality assurance certification.



WHAT IS VDE TESTING & WHY IS IT IMPORTANT?

VDE Quality Tested uses more rigorous quality standards than industry IEC61215 and IEC61730 testing certifications – number of tests are doubled, testing periods increased.

- Sample quantity: 4 (2 x IEC)
- Thermal Cycling 400 (2 x IEC)
- Damp Heat 1500 (1.5 x IEC)
- Include mechanical cycling test after UV- preconditioning test
- Decrease allowable power degradation to 5%

Continuous inline quality verification goes beyond IEC standards to better detect cell cracking and guarantee long-term reliability of the modules.

- 100% Post lamination electroluminescence imaging
- Wet-leakage test on 1% of production
- Ground continuity test on 1 module per site per day
- Reverse current overload test on 1 module per site per day

Offline monitoring ensures the consistency and reliability of the measurement system for each product, and verifies a stable, problem-free manufacturing process.

- Thermal mechanical stress tests
- Humidity and temperature stress tests

Suntech is one of only two VDE certified PV manufacturers in the world.

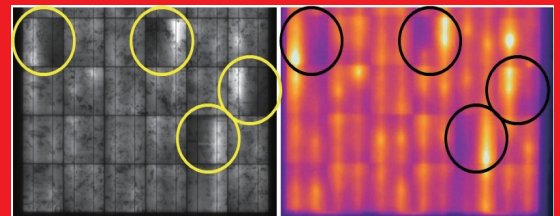
OUR ONGOING COMMITMENT

We achieved this certification through a culture of continuous improvement, determination and financial planning. Commitment to consumers is one of our prime objectives. A VDE certificate assures them of safety, quality and durability of our products. They will receive a better return on investment, with improved reliability and lower power degradation.

SunTech PV modules are recognised as having a premium level of quality and safety, from design to manufacturing.

AN EXAMPLE OF HOW RIGOROUS VDE TESTING ENSURES THE HIGHEST QUALITY & RELIABILITY > REVERSE CURRENT OVERLOAD TESTING

Examples of EI (left) and IR-pictures (right) show the effects of soldering problems that can be detected using IR-imaging. This way, soldering problems are recognized quickly and solved under VDE's certification process.



CONTACT US NOW TO IMPROVE YOUR SOLAR PERFORMANCE & RELIABILITY

suntech-power.com.au

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