

Why choose the
'Suntelligence'
module by Sungrid?



The Suntelligence solar module is brought to market by Sungrid; an Australian company. It is selected for its solid performance and value for money without cutting corners on quality.

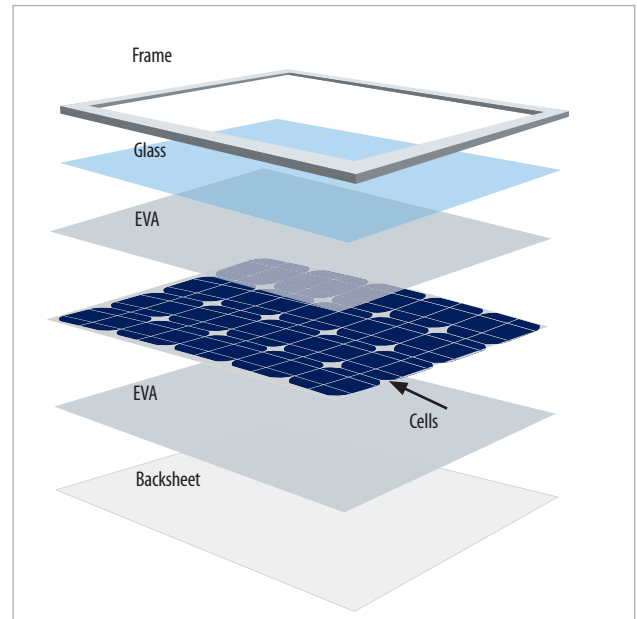
- The Suntelligence module is enhanced and protected by the Sungrid quality assurance (QA) processes to ensure the build quality and long term performance of the module. This includes the sourcing of quality base components. Additionally, Sungrid's assessments are supported by independent inspections, including those of the international testing laboratory, VDE.
- What you see regarding a solar module is less important than what you don't see! Some manufacturers will substitute less expensive and inferior materials into their production

process *after* they achieve certification. This can seriously compromise the quality and longevity of the module. Sungrid maintains the integrity of the production process and quality of its modules from start to finish. Our exacting standards of QA protect you against what you can't see.

- The Suntelligence module is backed by a locally held 5 year product warranty and 25 year performance warranty which ensures peace of mind to the Australian consumer. In the unlikely occurrence of a problem, we have representatives across Australia who you can call directly.

Suntelligence technical information

- **EVA** – This is an essential element in the production of a solar module. Many cheaper variants don't have the UV inhibiting additive that protects the module against premature yellowing. Although this yellowing may not affect the performance of the module, it does reduce the aesthetic appearance. The EVA in the Suntelligence modules is selected to ensure it has this protective element included.
- **The Backsheet** – The purpose of the back sheet of a module is to provide resistance to mechanical damage, provide a moisture barrier, be UV resistant, and adhere well. Sungrid only uses high quality backsheets from European, American or Japanese companies to ensure a level of performance that meets stringent requirements (IEC61215).
- **The Cells** - The solar cells make up about 75% of the material cost of the module, so it is important to find the best combination of cell and module manufacturer. The Suntelligence modules achieve this by using production facilities that undertake both cell and module manufacturing on the same site. This ensures the best integration of the cells into the solar module and tight control over manufacturing costs.
- **The Glass** – The Suntelligence module uses 3.2mm thick, low iron, toughened glass for excellent strength and low level light capture ensuring a sturdy, long lasting module with good energy production results.
- **The Frames** - Suntelligence modules use anodised aluminium extrusion for the frames, providing long term aesthetic appeal. The double wall construction of the frame provides torsional rigidity and excellent overall strength.
- **Strength and durability** - The Suntelligence modules are wind load certified by VDE to a pressure of 2400 Pascals (Pa). This is measured in two directions; down on the module and upwards (force from the back) through the module. For a 190w module this equates to over 300kg spread over the surfaces. In addition, the modules are snow rated to 5400Pa from the front. This is equivalent to over 700kg spread over the front surface of the module. Suntelligence modules have also passed the VDE hailstone impact testing. This test uses hailstones 25mm in diameter travelling at



terminal velocity (over 80km/hr). They take 11 shots at various points around the module to test for any potential weak spots.

Whether it be wind, hail or even snow! These tests ensure that the Suntelligence modules are strong enough to handle many years of wear under the harsh Australian conditions.

- **The Performance** – The Suntelligence module by Sungrid uses three bypass diodes effectively breaking the module into three sections and thus reducing the impact of shading on the module. This assists in maximising the performance of the module under all types of light conditions.
- **Certification** – All Suntelligence manufacturing facilities are certified to ISO9001: 2000 standards and the solar modules are certified to IEC61215, IEC61730-1 and IEC61730-2.

At Sungrid we drive the quality control measures to deliver a level of quality assurance that ensures industry standards are met and that only certified products are distributed. Because of this commitment to quality, Sungrid is able to offer strong, locally held warranties on build, performance and power output.

At Sungrid we aspire to continuous improvement and a commitment to innovation. As such, Sungrid will continue to push the boundaries in its development of innovative solar energy solutions for many years to come.

For more information or to discuss your Suntelligence module requirements, please contact Sungrid Head Office on 08/9433 9400 for the details of your local representative.

Or log on to www.sungridsolar.com for more information on this Australian solar success story.



Sungrid Limited

Address

4 Bannister Street,
Fremantle, Western Australia.

Telephone

+61 8 9433 9400

E-mail

info@sungridsolar.com

Website

www.sungridsolar.com



Please consider the environment
before printing this page.