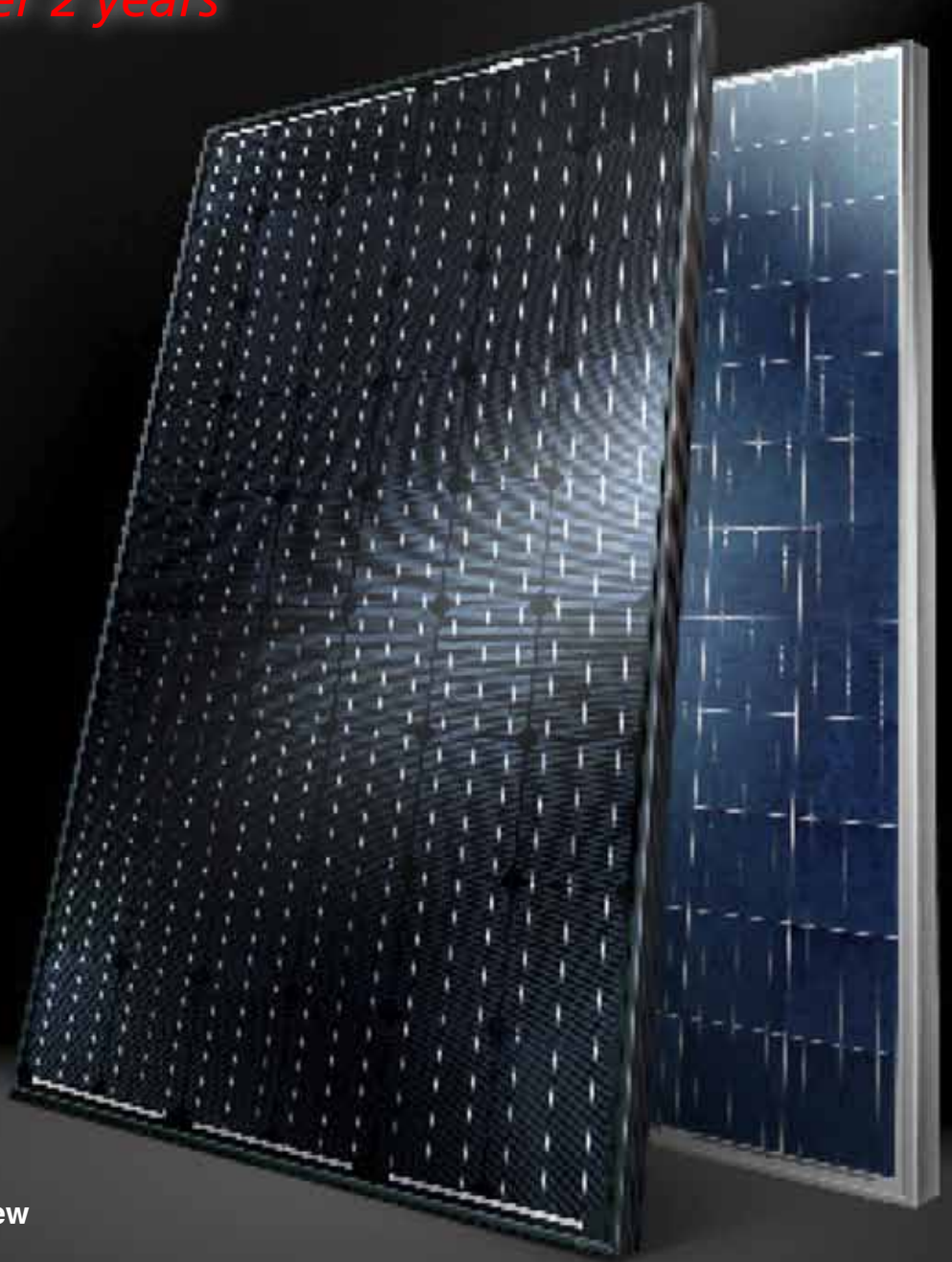


#1 Photon

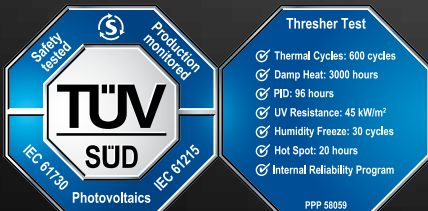
LABORATORY



Number One Performing Panel installed for over 2 years



First Panel to pass the new
TÜV SÜD Thresher Test



www.seraphim-energy.com

Photon Lab's outdoor module tests: Results of 2012 yield measurements

| 2012 Rank | Manufacturer | Model | Cell Type | Year Installed | Performance Ratio | Yield (kWh / kW) | Years On Test |
|-----------|------------------------------|--------------------|------------------------|----------------|-------------------|------------------|---------------|
| 1 | SunPower | SPR-327NE-WHT-D | Thin Film | 2012 | 95.2% | 1,144.1 | New |
| 2 | SunPower | SPR-320NE-WHT-D | Thin Film | 2012 | 94.9% | 1,140.1 | New |
| 3 | SunPower | SPR-245NE-WHT-D | Thin Film | 2012 | 94.8% | 1,139.4 | New |
| 4 | Seraphim Solar System | SRP-220-6PB | Polycrystalline | 2011 | 93.6% | 1,125.5 | New |
| 5 | Yingli Green Energy | YL240P-29b | Polycrystalline | 2012 | 93.1% | 1,118.7 | New |
| 6 | ET Solar | ET-P660240 | Polycrystalline | 2011 | 92.8% | 1,115.3 | New |
| 7 | Sunerg Solar | XP 60/156-230 | Polycrystalline | 2011 | 92.8% | 1,115.0 | New |
| 8 | Siliken | SLK60P6L 230Wp | Polycrystalline | 2009 | 92.7% | 1,114.2 | 3 Years |
| 9 | Jinko Solar | JKM190M-72 | Monocrystalline | 2011 | 92.5% | 1,112.2 | New |
| 10 | Huanghe | HH230(30)P | Polycrystalline | 2012 | 92.5% | 1,112.1 | New |
| 11 | Jinko Solar | JKM235P-60 | Polycrystalline | 2012 | 92.5% | 1,111.4 | New |
| 12 | Apollo Solar | 235G6M | Polycrystalline | 2012 | 92.3% | 1,109.0 | New |

Seraphim Solar Panels are the best panel for Australian conditions

**Top rated Polycrystalline Panel for 2013
(Based on initial performance ratio)**

Top rated Polycrystalline Panel for 2012

Top rated Panel fitted for 2 years



Positive tolerance for each panel up to 4.99 watts



12 years product warranty
15 years warranty @ 90% performance
30 years warranty @ 80% performance



Certified and audited by global certification bodies and 3rd party companies



3 x in-line Electroluminescence (EL) tests guaranteed micro crack free



Tested for Ammonia (IEC 61701); Salt Mist (IEC 72716); Corrosion Resistance and Fire Tested (IEC 61730-2)



Cell efficiency 17.7 ~18.0%



High light transmission glass SPF-U1 certified



Product liability and performance (E&O) insured by Chubb insurance



Operating Temperature -40°C to 85°C nominal temperature 45±2°C



Financially supported by key international banks



Good performance in high temperature and low irradiance conditions TÜV certified



Tested for power output accuracy and product reliability



Best performing polycrystalline panel with front cell busbars



Thresher Test Certified (IEC 61215 / IEC 61730) PID Certified; Thermal cycles; damp heat; UV Resistance; humidity freeze; hot spot; internal reliability program



5400pa Mechanical loading; 8000pa Mechanical loading available

Photon Lab's outdoor module tests: Results of 2013 yield measurements

| 2013 Rank | Manufacturer | Model | Cell Type | Year Installed | Performance Ratio | Yield (kWh / kW) | Years On Test |
|-----------|------------------------------|--------------------|------------------------|----------------|-------------------|------------------|----------------|
| 1 | Sopray Energy | SR-190 | Monocrystalline | 2013 | 94.0% | 1,094.3 | New |
| 2 | Risen Energy | SYP190S-M | Monocrystalline | 2012 | 93.8% | 1,092.5 | New |
| 3 | ET Solar Industry | ET-M660250WW | Monocrystalline | 2012 | 93.4% | 1,088.0 | New |
| 4 | Hanwha Q-Cells | Q.PRO-G2 235 | Polycrystalline | 2012 | 93.3% | 1,086.9 | New |
| 5 | Sonalis | SL190TU-36M | Monocrystalline | 2012 | 93.3% | 1,086.5 | New |
| 6 | Risen Energy | SYP250M | Monocrystalline | 2012 | 93.1% | 1,084.3 | New |
| 7 | CSG PVTech | CSG240M2 | Polycrystalline | 2013 | 93.1% | 1,084.0 | New |
| 8 | Renesola | JC45M-24/Bbv | Quasi-mono | 2012 | 93.1% | 1,083.6 | New |
| 9 | Sopray Energy | SR-156P-235 | Polycrystalline | 2013 | 93.0% | 1,083.3 | New |
| 10 | CSG PVTech | CSG250S2 | Monocrystalline | 2013 | 93.0% | 1,083.2 | New |
| 11 | RealForce Power | RF-240P60 | Polycrystalline | 2013 | 92.8% | 1,081.1 | New |
| 12 | Seraphim Solar System | SRP-220-6PB | Polycrystalline | 2011 | 92.6% | 1,078.4 | 2 Years |

Annual Photon International Performance Testing.

Since 2005, the industry leading Photon International Magazine has operated an independent ongoing Laboratory test that monitors the energy yield of solar panels from leading manufacturers. These tests compare the energy produced, per kilowatt of installed power under identical conditions. The tests are also conducted across different seasons and in different light conditions.

In October 2011, Seraphim submitted their Solar panels to participate in the PHOTON outdoor measurement test. Since then, these modules have yielded a

consistently outstanding performance.

In PHOTON's 2012 Module Yield Test, the Seraphim panels produced one of the leading results among the world's top performers. In PHOTON's 2013 Module Yield Test they have again proven their worth as the best performing panel **installed for over two years**. Not only are they considered the best panel for Australian conditions, but they have also been proven to be the best performing Polycrystalline panel with an initial performance ratio of 93.6%.

TÜV SUD Thresher Test

Recently Seraphim were the first solar panels to pass this new more rigorous

test which is designed to put a solar panel through its paces in terms of life expectancy and performance like no other test before.

Both the Seraphim monocrystalline and polycrystalline solar panels successfully passed the Thresher test. In conjunction with their development partners **Fuji Film**, Seraphim not only passed all the criteria and physical testing, but due to these tests were also able to increase their **Manufacturers Warranty to 12years**. In turn, Seraphim's Performance Warranties have also been increased to **90% performance at 15years** and **80% performance at 30years**.

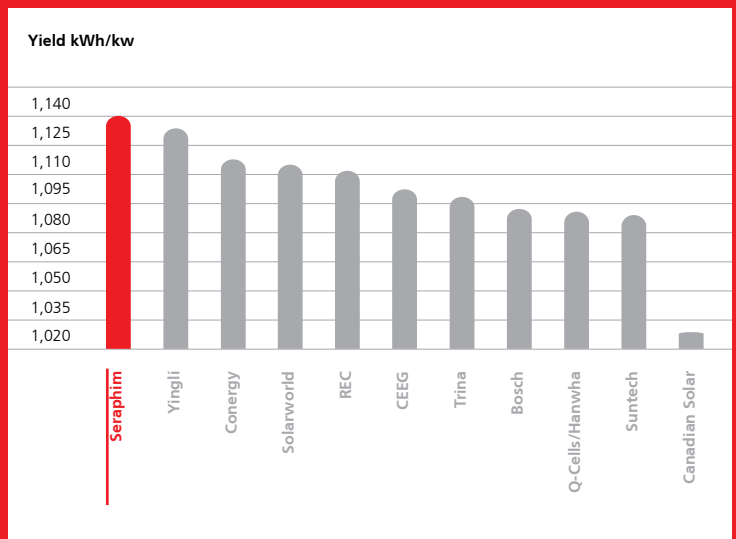


Photon Test Comparison of Leading Solar Panel Brands

The Seraphim Module shines in real life conditions with a top performance in Photon Laboratory's test for two years in a row

The test is conducted by the independent laboratory of the leading industry magazine Photon, and is currently the most recognized yield performance test comparing international module brands over several years, during different seasons and in different light conditions.

Since 2005, Photon Lab has operated an ongoing test that monitors the energy yield of solar modules from leading manufacturers. This test compares the energy produced per kilowatt of installed power of the participating modules, under identical conditions.



Your Nearest Supplier:

www.seraphim-energy.com