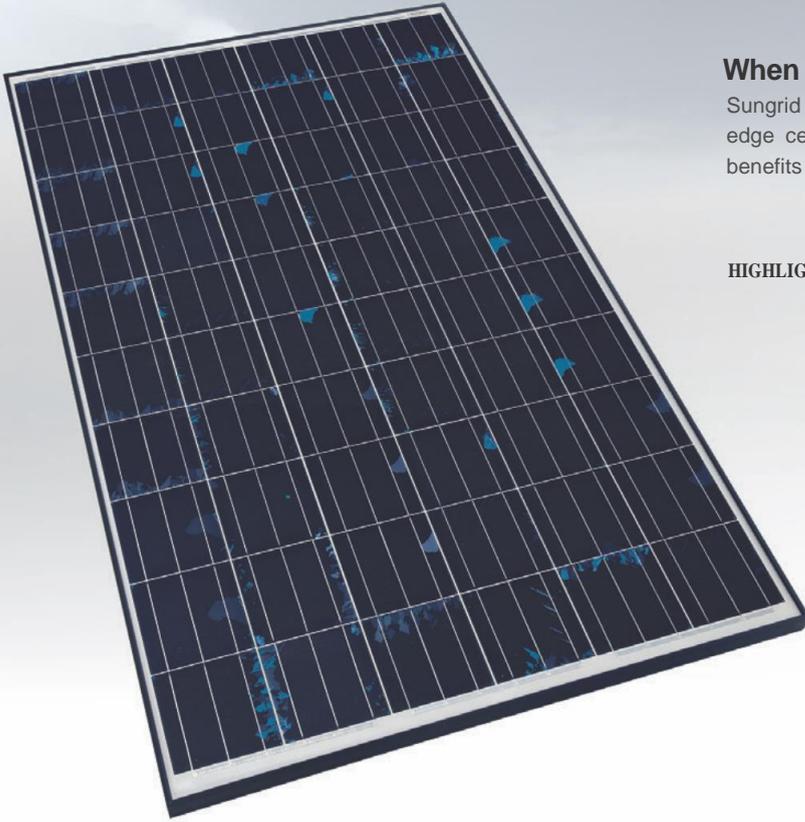


# SG250Q6

QUASI



## When quality, performance and reliability matter

Sungrid introduces a new line of PV Modules that combine a cutting edge cell technology and a quality control process providing benefits of performance and reliability to Australian consumers.

### HIGHLIGHTS >



Outstanding Module Efficiency **15.3%**.



Positive Power tolerance **+5/-0 %**.



**Power Label** provides transparency to the customer on actual power output.



"**3-Busbar**" cells reduce current loss and increase cell power output.



At least **92 %** of nominal power **after 10 years** and **83 %** of nominal power **after 25 years**.



## SUNGRID BENEFITS

### Australian Company - 'Over 5 years' incorporated experience

- Committed to Solar - Working in the Australian market place for over five years, Sungrid has been through the ups and downs of the Australian Solar industry with you, and is still working to shape a sustainable and affordable energy future for Australia.
- Sungrid strives to attain and grow lasting partnerships to help both parties succeed in a competitive marketplace.

### Australian Customer Service and Warranty Support

- Local Engineers - Sungrid's locally based Engineers have an intimate knowledge of the 'Sungrid' product. You can call directly to this support at our Perth based Head office unlike many other overseas based operations.
- Local Warehouses - Sungrid has locally operated logistics & warehousing in convenient National locations.

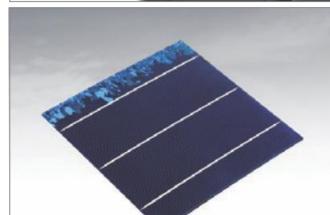
### Australian Quality Assurance and Quality Control

- Strict Requirements - Sungrid sets out Quality Assurance procedures that aim to achieve a zero tolerance for defects and therefore deliver the highest quality modules.
- Australian Engineer Quality Assured - Sungrid employs an Australian Engineer present on the module production line administering the Sungrid Quality Assurance procedures. These include component warehousing, pre-assembly, assembly and post assembly of modules.



### Superior Frame Design

- Robust: crimped corners and high strength aluminium alloy
- Functional: drainage holes
- Aesthetic: black anodized finish



### Quasi-monocrystalline cell

- Cutting edge technology
- Better electrical performance and efficiency distribution than pure multicrystalline cells



### Anti-Reflective Solar Glass Coating

- Increases light transmittance to cells
- Reduces light reflectivity on module glass



### Advanced Junction Box

- Sealed for longevity
- Ingress Protection Rating: IP67

Specifications overleaf...

## ELECTRICAL CHARACTERISTICS at STC\*

NOMINAL POWER (+12.5W / -0W)		[W]	250
Short Circuit Current	I <sub>SC</sub>	[A]	8.86
Open Circuit Voltage	V <sub>OC</sub>	[V]	37.71
Current at P <sub>MPP</sub>	I <sub>MPP</sub>	[A]	8.30
Voltage at P <sub>MPP</sub>	V <sub>MPP</sub>	[V]	30.14
Efficiency	η	[%]	15.3

## TEMPERATURE COEFFICIENTS at STC\*

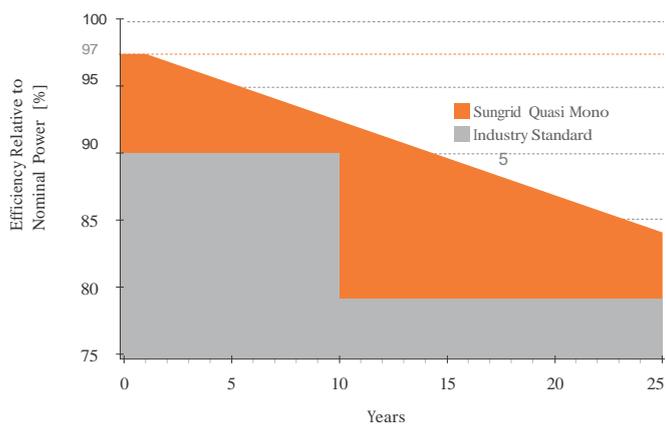
Nominal Operating Cell Temperature	NOCT	°C	45 ± 2
Temperature Coefficient of I <sub>SC</sub>	α	[%/°C]	0.029
Temperature Coefficient of V <sub>OC</sub>	β	[%/°C]	-0.350
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/°C]	-0.430

\* STC, Standard Test Conditions, 1000W/m<sup>2</sup>, 25°C, AM1.5

## MECHANICAL SPECIFICATIONS

Dimensions	1650 mm x 991 mm x 40 mm
Weight	19.5 kg
Frontsheet	3.2 mm tempered glass, anti-reflective coating
Backsheet	composite film
Frame	black anodized aluminium
Cell	6 x 10 quasi-mono crystalline, 6 inch
Junction Box	Protection Class IP67, with bypass diodes 90 mm x 91 mm x 16 mm
Cable	4 mm <sup>2</sup> , (+) 1000 mm, (-) 1000 mm
Connectors	Protection Class IP67 MC4 compatible

## SUNGRID PERFORMANCE WARRANTY



- At least 97% of nominal power at the end of first year
- At least 92% of nominal power during after 10 years
- At least 83% of nominal power during after 25 years

Please refer to our website for full details on our warranty terms and conditions.

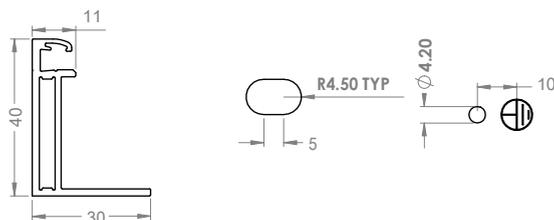
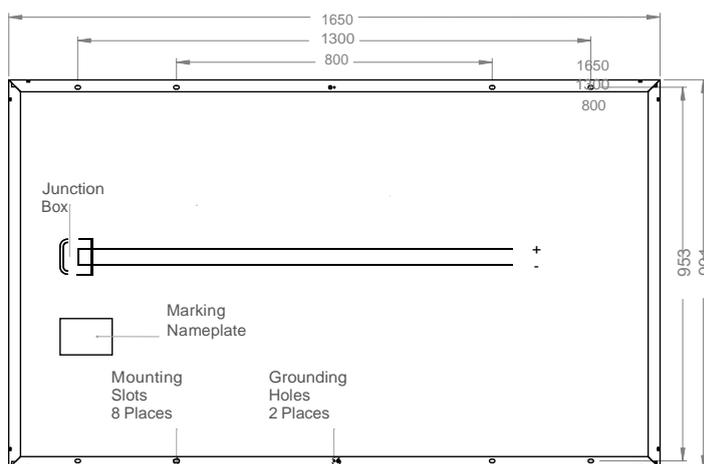
### QUALIFICATIONS AND CERTIFICATES

Certified to:  
IEC61215:2005, EN61730-1:2007, EN61730-1:2007



CEC Approved:  
Certificate Holder: Sungrid Ltd Model Number: SG250P6F-3600

## MODULE DIAGRAM



## PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage (Vdc)	[V]	1000
Maximum Reverse Current	[A]	15
Wind / Snow Load	[Pa]	2400/5400
Application Class		A
Operating Temperature	°C	-40; 85°C
Number of Bypass Diodes		3

## SUNGRID MODULES AVAILABLE AT:

