

10 YEARS
Workmanship Warranty

AUSTRALIAN
Warranty & Support

ST250Q6

AUSTRALIAN ENGINEER QUALITY ASSURED,
INNOVATIVE AND COMPETITIVE

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



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 84 % of nominal power after 25 years.

SUNGRID BENEFIT

Australian Company— 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 'Suntelligence' 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.

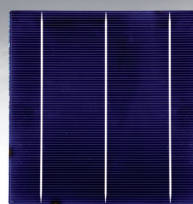
Australian Quality Assurance and Quality Control

- 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



Solar Glass Coating from 3M

- Anti-Reflective



Advanced Junction Box

- Potted
- Ingress Protection Rating: IP67
- Flammability Rating: UL94-V0

ELECTRICAL CHARACTERISTICS at STC*

NOMINAL POWER (+12.5W / -0W)		[W]	250
Short Circuit Current	I _{sc}	[A]	8.86
Open Circuit Voltage	V _{oc}	[V]	37.71
Current at P _{MPP}	V _{MPP}	[V]	8.29
Voltage at P _{MPP}	V _{MPP}	[V]	30.14
Efficiency	η	[%]	15.29

TEMPERATURE COEFFICIENTS at STC*

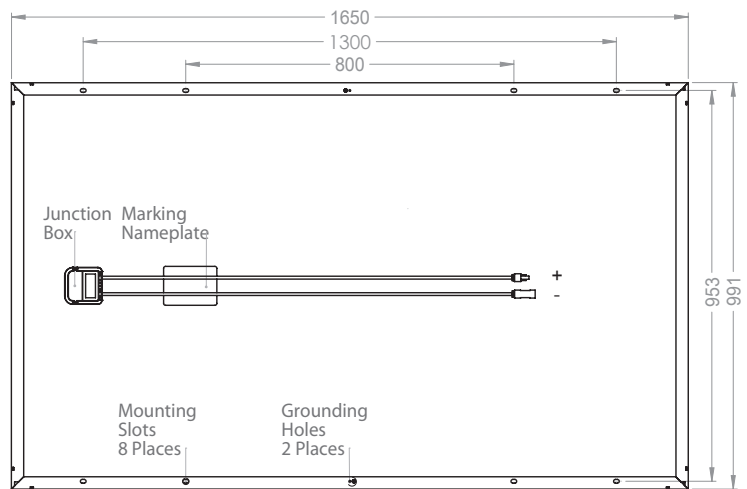
Nominal Operating Cell Temperature	NOCT	°C	45 ± 2
Temperature Coefficient of I _{sc}	α	[%/°C]	0.055
Temperature Coefficient of V _{oc}	β	[%/°C]	-0.340
Temperature Coefficient of P _{MPP}	γ	[%/°C]	-0.430

*STC, Standard Test Conditions, 1000W/m², 25°C, AM1.5

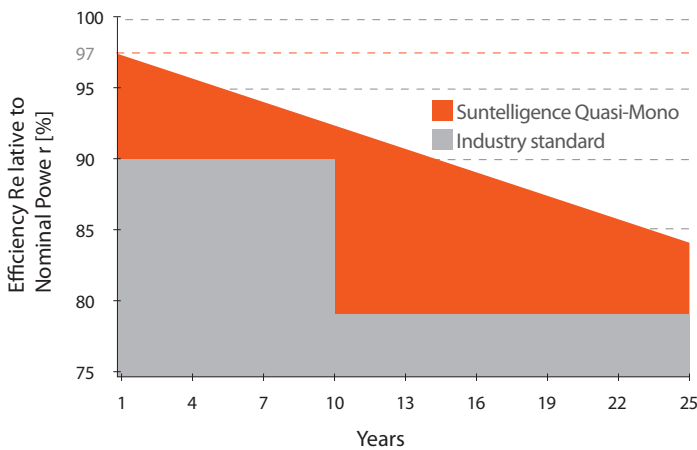
MECHANICAL SPECIFICATION

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 ² , (+) 1000 mm, (-) 1000 mm
Connectors	Protection Class IP67 MC4 compatible

MODULE DIAGRAM

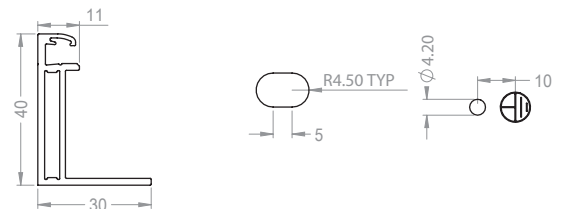


SUNTELLIGENCE PERFORMANCE WARRANTY



- At least 97% of nominal power at the end of first year
- At least 92% of nominal power during after 10 years
- At least 84% of nominal power during after 25 years

Please refer to Sunteelligence Warranty terms document for full details



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

QUALIFICATIONS AND CERTIFICATES



Certified to: IEC61215,
IEC61730-1, IEC61730-2



Head Office & National Call Centre

3/94 Belgravia St, Belmont
Western Australia 6104

Ph: 1300 881 440

Fax: +61 8 9477 4899