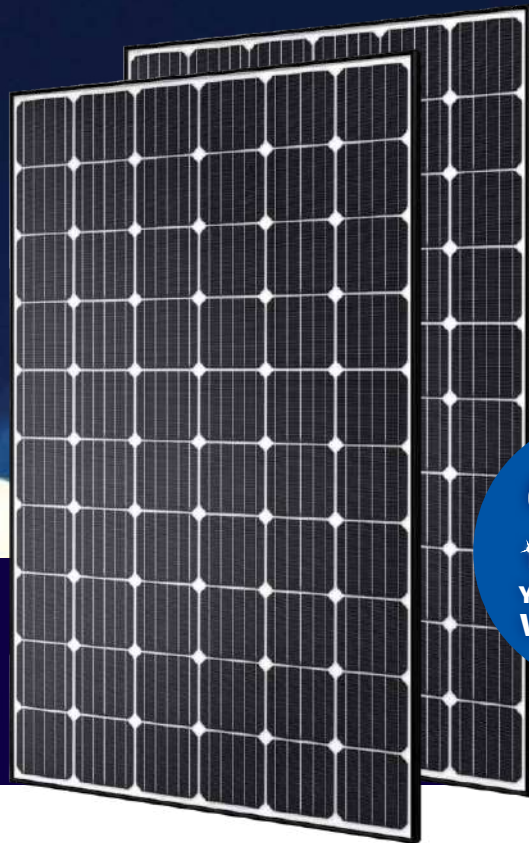


HYUNDAI ENERGY SOLUTIONS

THE KNOWN
SOLAR BRAND
AUSTRALIA TRUSTS



HiE-S315RG Mono-Crystalline
315W 60 CELLS



25
YEAR PRODUCT
WARRANTY



HYUNDAI
ENERGY SOLUTIONS

WHAT IS THE VALUE OF A BRAND?

Hyundai is one of the biggest consumer brand names in the world.

As a long established international brand, Hyundai Energy Solutions solar panels have been installed within Australia for over 10 years. In 2019 we increased our product warranty to 25 years.

By purchasing panels from a trusted and well known consumer brand, you're making a safer investment for the long term.

No. **94** **Forbes**
2019 WORLD'S MOST
VALUABLE BRANDS

Why choose Hyundai Energy Solutions?



ANTI-LID / PID

Both LID (Light Induced Degradation) and PID (Potential Induced Degradation) are strictly eliminated to ensure higher actual yield during lifetime.



MECHANICAL STRENGTH

Tempered glass and reinforced frame design withstand rigorous weather conditions such as heavy snow and strong wind.



CORROSION RESISTANT

Various tests under harsh environmental conditions such as ammonia and salt-mist certified.



UL / VDE TEST LABS

Hyundai's Research and Development Centre is an accredited test laboratory of both UL and VDE global safety certifications.



25 YEAR PRODUCT WARRANTY

Market leading product warranty for our heavy duty 315W RG Series solar panels.



SOLAR PANEL VALIDATION INITIATIVE

All of Hyundai's panels meet the standards for this Australian Government Initiative.

ELECTRICAL CHARACTERISTICS*

MODEL		HiE-S315RG
Nominal Output (P _{mpp})	W	315
Open Circuit Voltage (V _{oc})	V	40
Short Circuit Current (I _{sc})	A	9.87
Voltage at P _{max} (V _{mpp})	V	32.9
Current at P _{max} (I _{mp})	A	9.57
Module Efficiency	%	19.24
Cell Type	-	Mono-Crystalline Silicon
Maximum System Voltage	V	DC 1,500 V (IEC)
Maximum Reverse Current	A	20

*All data at STC (Standard Test Conditions). Above data may be changed without prior notice.

TEMPERATURE CHARACTERISTICS

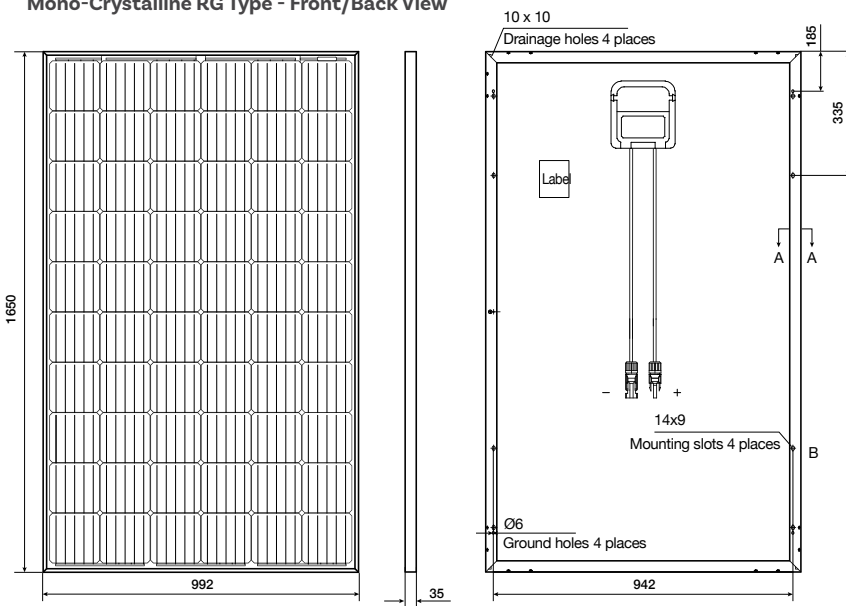
Nominal Operating Cell Temperature	45°C ± 2
Operating Temperature	-40 ~ 85°C
Temperature Coefficient of P _{max}	-0.390%/°C
Temperature Coefficient of V _{oc}	-0.290%/°C
Temperature Coefficient of I _{sc}	+0.033%/°C

INSTALLATION SAFETY GUIDE

- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

MODULE DIAGRAM (unit:mm)

Mono-Crystalline RG Type - Front/Back View

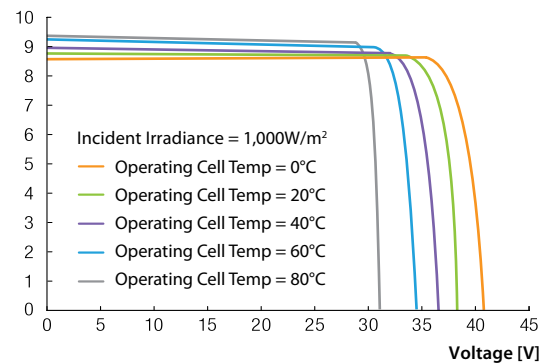


MECHANICAL CHARACTERISTICS

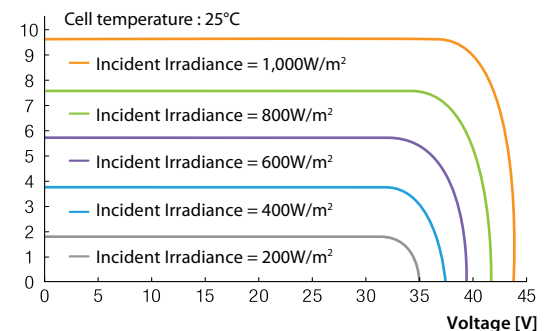
Dimensions	992mm (W) × 1650mm (L) × 35mm (H) Weight: 18.2kg
Solar Cells	60pcs 156.75×156.75mm Monocrystalline solar 5BB PERC cells
Output Cables	4mm ² cables with QC4.10 connectors, IEC Certified, length 900mm
Junction Box	Rated current:13A, IP67, TUV&UL
Bypass Diodes	3 bypass diodes to prevent power decrease by partial shade
Construction Front	Transparent toughened safety glass, 3.2mm
Encapsulant	EVA Back Sheet: Composite film
Frame	Anodized aluminum profile
Application Class	Class A / Class II
Maximum Surface Load Capacity	Front 5,400 Pa, Rear 2,400 Pa

I-V CURVES

Current [A]



Current [A]



- IEC 61215-2 (ed.1) and IEC 61730-2 (ed.2) by TUV
- Advanced Mechanical Test: Positive 3600Pa (safety factor 1.5) / Negative 2400Pa (safety factor 1.5)
- 25 Year Performance Warranty - linear from second year with 0.7% annual degradation such that 80.2% is guaranteed up to 25 years. 25 Year Product Warranty on materials and workmanship.

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 **Hyundai Solar AU**



Solar cells and panels made in
 South Korea, Vietnam or China.