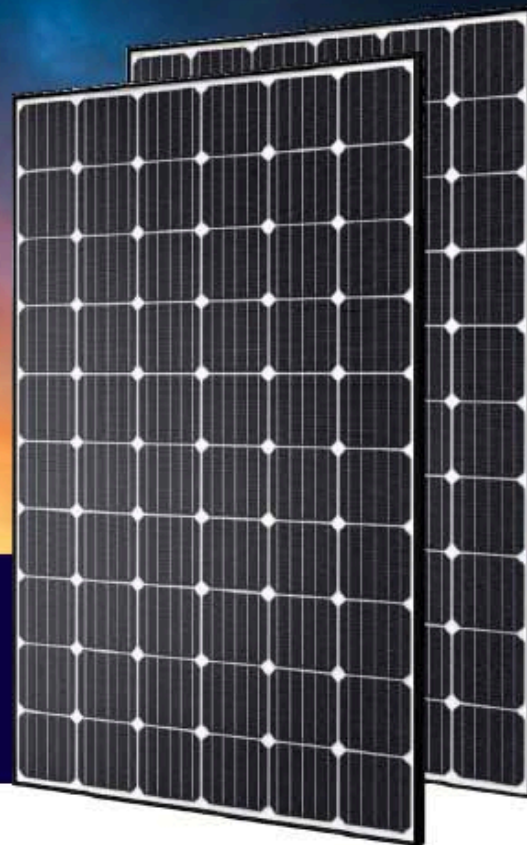


# HYUNDAI ENERGY SOLUTIONS

BUILT TOUGH.  
THE KNOWN SOLAR BRAND  
AUSTRALIA TRUSTS.



**Mono Crystalline Module**  
**300W 60 CELLS**



**25**  
YEAR PRODUCT  
WARRANTY

**30**  
YEAR  
PERFORMANCE  
WARRANTY

## 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 passed.

### UL / VDE TEST LABS

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

### 25 YRS 25 YEAR PRODUCT WARRANTY

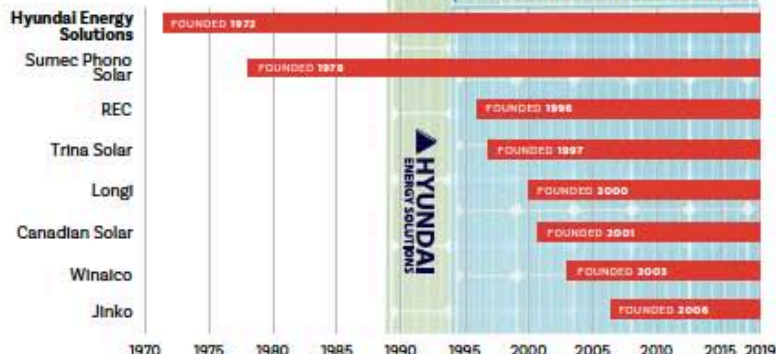
Hyundai Energy Solutions have a market leading product warranty for our heavy duty 300W RG Series solar panels.

Panel Performance Warranty Comparison (300W Panels)



Hyundai Solar purchasers get more guaranteed electricity from year one!

HYUNDAI PERFORMANCE WARRANTY - 30 YEARS  
STANDARD PERFORMANCE WARRANTY - 25 YEARS



\*This graph is current as at date of publishing & warranties refer to manufacturer's most commonly sold panel product.

■ PV panel performance warranty ■ Company lifespan

**ELECTRICAL CHARACTERISTICS\***

MODEL		HIA-S300RG	
Power Tolerance -0% / +3%	Nominal Output (Pmpp)	W	300
	Open Circuit Voltage (Voc)	V	39.72
	Short Circuit Current (Isc)	A	9.74
	Voltage at Pmax (Vmpp)	V	32.37
	Current at Pmax (Impp)	A	9.27
	Module Efficiency	%	18.44
	Cell Type	-	6" mono PERC
	Maximum System Voltage	V	1,000
	Maximum Reverse Current	A	20

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

**MECHANICAL CHARACTERISTICS**

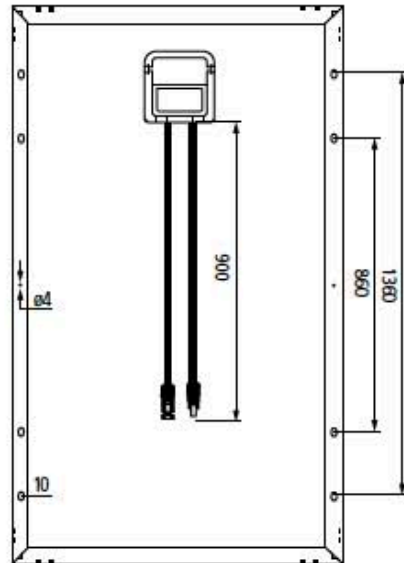
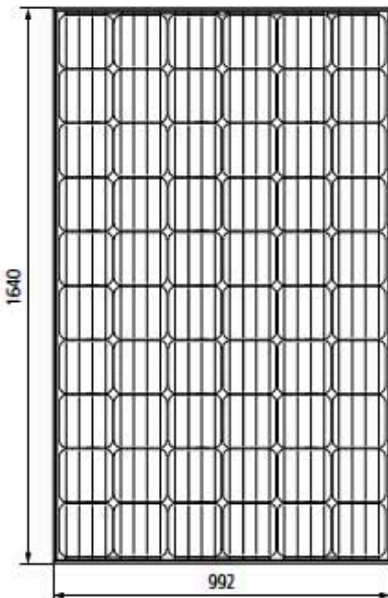
<b>Dimensions</b>	992mm (W) x 1640mm (L) x 35mm (H) Weight: 18.2kg
<b>Solar Cells</b>	60 cells in series (6 x 10 matrix)
<b>Output Cables</b>	4mm <sup>2</sup> cables with MC4 weatherproof connectors, IEC Certified, length 900mm
<b>Junction Box</b>	IP68
<b>Bypass Diodes</b>	3 bypass diodes to prevent power decrease by partial shade
<b>Construction Front</b>	Anti-reflection coated glass, 3.2mm
<b>Encapsulant</b>	EVA   Back Sheet: Weatherproof film
<b>Frame</b>	Black anodised aluminium alloy type AL6063-T5
<b>Application Class</b>	Class A / Class II

**TEMPERATURE CHARACTERISTICS**

Nominal Operating Cell Temperature	45°C ± 2
Operating Temperature	-40 - 85°C
Temperature Coefficient of Pmax	-0.41%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	+0.058%/°C

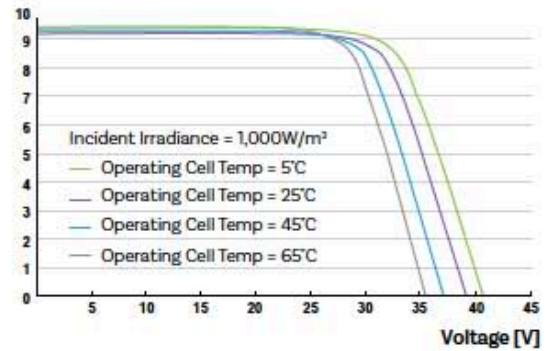
**MODULE DIAGRAM (unit:mm)**

Mono-Crystalline RG Type - Front/Back View

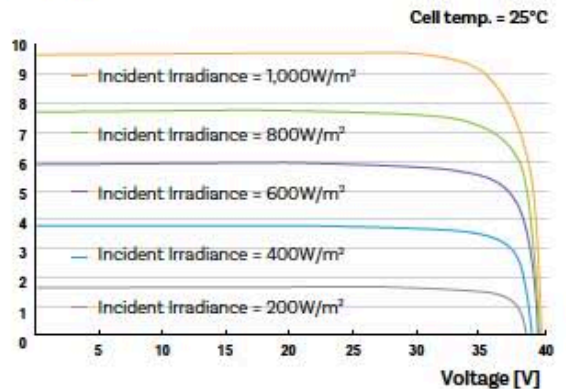


**I-V CURVES**

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 Product Warranty, 30 Linear Performance Warranty