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

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

HYUNDAI PERFORMANCE WARRANTY - 30 YEARS
HYUNDAI ENERGY SOLUTIONS
www.hyundaisolar.com.au
**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HiA-S300RG</th>
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<tbody>
<tr>
<td>Nominal Output (Pmpp)</td>
<td>W</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>V</td>
</tr>
<tr>
<td>Short Circuit Current (Isc)</td>
<td>A</td>
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<tr>
<td>Voltage at Pmax (Vmpp)</td>
<td>V</td>
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<tr>
<td>Current at Pmax (Impp)</td>
<td>A</td>
</tr>
<tr>
<td>Module Efficiency</td>
<td>%</td>
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<tr>
<td>Cell Type</td>
<td>-</td>
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<tr>
<td>Maximum System Voltage</td>
<td>V</td>
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<tr>
<td>Maximum Reverse Current</td>
<td>A</td>
</tr>
</tbody>
</table>

**MECHANICAL CHARACTERISTICS**

- Dimensions: 992mm (W) × 1640mm (L) × 35mm (H)
- Weight: 18.2kg
- Solar Cells: 60 cells in series (6 × 10 matrix)
- Output Cables: 4mm² cables with MC4 weatherproof connectors, IEC Certified, length 900mm
- Junction Box: IP68
- Bypass Diodes: 3 bypass diodes to prevent power decrease by partial shade
- Construction Front: Anti-reflection coated glass, 3.2mm
- Encapsulant: EVA | Back Sheet: Weatherproof film
- Frame: Black anodised aluminium alloy type AL6063-T5
- Application Class: Class A / Class II

*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 Pmax: -0.41%/°C
- Temperature Coefficient of Voc: -0.33%/°C
- Temperature Coefficient of Isc: +0.058%/°C

**I-V CURVES**

- Incident Irradiance = 1,000W/m²
  - Operating Cell Temp = 5°C
  - Operating Cell Temp = 25°C
  - Operating Cell Temp = 45°C
  - Operating Cell Temp = 65°C

- Incident Irradiance = 800W/m²
- Incident Irradiance = 600W/m²
- Incident Irradiance = 400W/m²
- Incident Irradiance = 200W/m²

* 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