# HYUNDAI SOLAR MODULE



## Mono-Crystalline Type

HIS-S295RG HIS-S300RG HIS-S305RG HIS-S310RG

HYUNDAI

Cells



For Both Residential & Commercial Applications



Hyundai Cell





PERC Technology

PERC technology provides ultra-high efficiency with better performance in low irradiation. Maximizes installation capacity in limited space.



# **Reliable Warranty**

Global brand with powerful financial strength provide reliable 30-year warranty.

#### Hyundai's Warranty Provisions



12-Year Product Warranty
On materials and workmanship



#### • **30-Year Performance Warranty** • Initial year: 97.6%

 Linear warranty after second year: with 0.6%p annual degradation, 80.2% is guaranteed up to 30 years

#### Certification





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



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



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



Hyundai's R&D center is an accredited test laboratory of both UL and VDE.

#### About Hyundai Solar

Established in 1972, Hyundai Heavy Industries (HHI) is one of the most trusted names in the heavy industries sector with 48,000 employees and more than 40 Billion USD in annual sales (2015). As a global leader and innovator, Hyundai Heavy Industries is committed to building a future growth engine by developing and investing heavily in the field of renewable energy.

Started as a core business division of HHI, Hyundai Solar (Hyundai Heavy Industries Green Energy) now stands as an independent company and an affiliate of HHI as from December 2016. We have strong pride in providing high-quality PV products to more than 3,000 customers worldwide.



## **Electrical Characteristics**

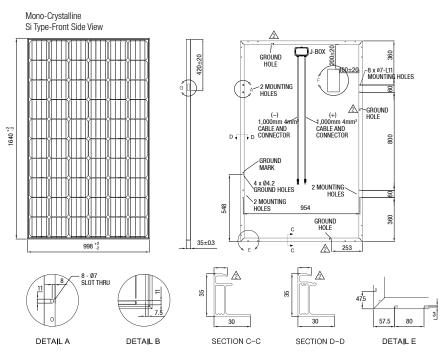
Electrical Characteristics		Mono-Crystalline Module (HiS-SRG)			
		295	300	305	310
Nominal Output (Pmpp)	W	295	300	305	310
Open Circuit Voltage (Voc)	V	39.0	39.1	39.2	39.4
Short Circuit Current (lsc)	А	9.8	9.9	10.0	10.2
Voltage at Pmax (Vmpp)	V	32.1	32.3	32.4	32.5
Current at Pmax (Impp)	А	9.2	9.3	9.4	9.5
Module Efficiency	%	18.0	18.3	18.6	18.9
Cell Type	-	6", mono-crystalline silicon			
Maximum System Voltage	V	1,000			
Temperature Coefficient of Pmax	%/K	-0.40			
Temperature Coefficient of Voc	%/K	-0.29			
Temperature Coefficient of Isc	%/K	0.039			

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

## **Mechanical Characteristics**

Dimensions	998 mm (39.29´)(W) × 1,640 mm (64.57´)(L) × 35 mm (1.38´´)(H)		
Weight	Approx. 17.5kg		
Solar Cells	60 cells in series (6 $\times$ 10 matrix) (Hyundai cells)		
Output Cables	4 mm² (12AWG) cables with polarized weatherproof connectors, IEC certified (UL listed), Length 1.0 m (39.4 <sup>°</sup> )		
Junction Box	IP67, weatherproof, IEC certified (UL listed)		
Bypass Diodes	3 bypass diodes to prevent power decrease by partial shade		
Construction	Front : Anti-reflection coated glass, 3.2 mm (0.126") Encapsulant : EVA   Back Sheet : Weatherproof film		
Frame	Clear anodized aluminum alloy type 6063		

### Module Diagram (unit : mm)

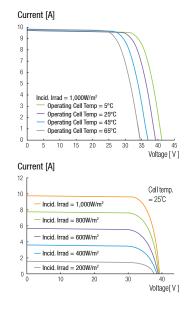


# **Installation Safety Guide**

- 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.

46°C ± 2
-40 - 85°C
DC 1,000 V (IEC) DC 1,000 V (UL)
<b>15A</b> (Up to 285W) <b>20A</b> (Above 290W)

## **I-V Curves**







#### Sales & Marketing

 
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