HYUNDAI SOLAR MODULE



Mono-Crystalline Type

HIS-S265RG (BK) HIS-S270RG (BK) HIS-S280RG (BK) HIS-S285RG (BK) HiS-S275RG (BK)









Cells

For Residential Applications

All Black Module More Power For Sleek Design Generation In Low Light

Hyundai Cell, Made in Korea



PERL Technology

PERL 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 25-year warranty.

Hyundai's Warranty Provisions



10-Year Product Warranty
 On materials and workmanship

25 YEARS

25-Year Performance Warranty Initial year: 97%

 Linear warranty after second year: with 0.7% annual degradation,
 80.2% is guaranteed up to 25 years

Certification





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.



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. It is the largest and the longest standing PV cell and module manufacturer in South Korea with 800 MW of module production capacity. We have strong pride in providing high-quality solar PV products to more than 3,000 customers worldwide.



Electrical Characteristics

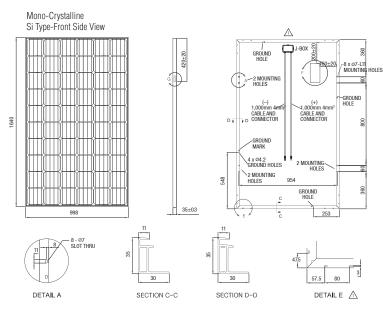
Electrical Characteristics		Mono-Crystalline Module (HiS-SRG (BK))				
		265	270	275	280	285
Nominal Output (Pmpp)	W	265	270	275	280	285
Open Circuit Voltage (Voc)	V	38.1	38.2	38.4	38.5	38.7
Short Circuit Current (Isc)	А	9.0	9.2	9.3	9.4	9.5
Voltage at Pmax (Vmpp)	V	31.3	31.4	31.6	31.7	31.8
Current at Pmax (Impp)	А	8.5	8.6	8.7	8.8	8.9
Module Efficiency	%	16.2	16.5	16.8	17.1	17.4
Cell Type	-	6", mono-crystalline silicon				
Maximum System Voltage	V	1,000				
Temperature Coefficient of Pmax	%/K	-0.42				
Temperature Coefficient of Voc	%/K	-0.30				
Temperature Coefficient of Isc	%/K	0.047				

*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. 18.7 kg (41.2 lbs)		
Solar Cells	60 cells in series (6 \times 10 matrix) (Hyundai cell, Made in Korea)		
Output Cables	4 mm² (12AWG) cables with polarized weatherproof connectors, IEC certified (UL listed), Length 1.0 m (39.4 [°])		
Junction Box	IP68, 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 (Black Color)		

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.

Nominal Operating Cell Temperature	46°C ± 2
Operating Temperature	-40 - 85°C
Maximum System Voltage	DC 1,000 V (IEC) DC 1,000 V (UL)
Maximum Reverse Current	15 A

I-V Curves

