HYUNDAI SOLAR MODULE



Mono-Crystalline Type

HiD-S290RG(BK) HiD-S295RG(BK) HiD-S300RG(BK) HiD-S305RG(BK)





All Black Module For Sleek Design



More Power Generation In Low Light



Assembled in USA with Hyundai Cell



PERL Technology

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



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

undai Ce/

Sembled

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



Reliable Warranty

Global brand with powerful financial strength provide reliable 25-year warranty.



Corrosion Resistant

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



UL / VDE Test Labs

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

Hyundai's Warranty Provisions



- 10-Year Product Warranty
- · On materials and workmanship



- 25-Year Performance Warranty
- · Initial year: 97%
- Linear warranty after second year: with 0.7%p annual degradation, 80% is guaranteed up to 25 years

About Hyundai Energy Solutions

Established in 1972, Hyundai Heavy Industries Group is one of the most trusted names in the heavy industries sector and is a Fortune 500 company. 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.

As a core energy business entity of HHI, Hyundai Energy Solutions has strong pride in providing high-quality PV products to more than 3,000 customers worldwide.

Certification





www.hyundai-es.co.kr Printed Date : 11/2019

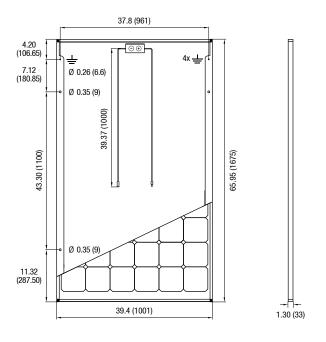
Electrical Characteristics		Mono-Crystalline Module (HiD-SRG (BK))			
		290	295	300	305
Nominal Output (Pmpp)	W	290	295	300	305
Open Circuit Voltage (Voc)	V	39.6	39.8	40.0	40.4
Short Circuit Current (Isc)	А	9.7	9.8	9.8	9.8
Voltage at Pmax (Vmpp)	V	31.9	32.3	32.5	32.9
Current at Pmax (Impp)	А	9.2	9.2	9.3	9.3
Module Efficiency	%	17.3	17.6	17.9	18.2
Cell Type	-	mono-crystalline silicon			
Maximum System Voltage	V	1,000			
Temperature Coefficient of Pmax	%/K	-0.391			
Temperature Coefficient of Voc	%/K	-0.31			
Temperature Coefficient of Isc	%/K	0.031			

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

Mechanical Characteristics

Dimensions	1,001mm (39.40") x 1,675mm (65.95") x 33mm (1.3")		
Weight	18.0kg (39.7lbs)		
Solar Cells	60 cells in series (6 x 10 matrix) (Hyundai cell)		
Output Cables	4 mm² (12AWG) cables with polarized weatherproof connectors, IEC certified (UL listed), Length 1.0 m (39.4″)		
Junction Box	IP65, weatherproof, IEC certified (UL listed)		
Bypass Diodes	3 bypass diodes to prevent power decrease by partial shade		
Construction	Front Glass : Anti-reflection coated glass, 3.2 mm (0.126") Encapsulant : EVA I Back Sheet : Weatherproof film		
Frame	Clear anodized aluminum alloy type 6063 (Black Color)		

Module Diagram (unit:mm)

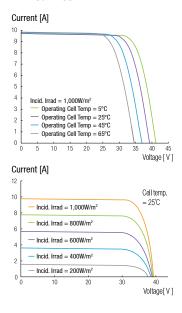


Installation Safety Guide

- 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 (UL)
Maximum Reverse Current	25A
Maximum Design Load	Front 113 psf Rear 64 psf

I-V Curves





Printed Date: 11/2019

