HYUNDAI SOLAR MODULE

SERIES

Multi-Crystalline Type

HiS-M310RI HiS-M315RI HiS-M320RI

Mono-Crystalline Type

HiS-S330RI HiS-S335RI HiS-S340RI HiS-S345RI HiS-S350RI HiS-S355RI HiS-S360RI



For Commercial & Utility Applications



Generation In Low Light







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.



Corrosion Resistant

Both LID(Light Induced Degradation) and

strictly eliminated to ensure higher actual

PID(Potential Induced Degradation) are

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



Mechanical Strength

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



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% annual degradation, 80.2% is guaranteed up to 25 years

About Hyundai Solar

yield during lifetime.

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.













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Electrical Characteristics Multi-Crystalline Module (HiS-M___RI) Nominal Output (Pmpp) 310 315 320 330 335 340 345 350 355 360 Open Circuit Voltage (Voc) 45.3 45.3 45.5 46.3 46.5 46.7 46.9 47.1 47.3 47.4 Short Circuit Current (Isc) 9.3 9.4 9.5 9.6 9.7 9.8 Voltage at Pmax (Vmpp) 36.0 38.0 38.2 36.2 36.4 38.4 38.6 38.7 38.9 39.1 Current at Pmax (Impp) 8.6 8.7 8.8 8.7 8.8 8.9 9.0 9.0 9.1 9.2 **Module Efficiency** 16.1 17.1 17.4 17.6 18.1 18.4 6", multi-crystalline silicon Cell Type 6", mono-crystalline silicon **Maximum System Voltage** 1,000 1,000 Temperature coefficient of Pmax -0.41 -0.40 Temperature coefficient of Voc -0.31 -0.29 Temperature coefficient of Isc 0.039

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

Mechanical Characteristics

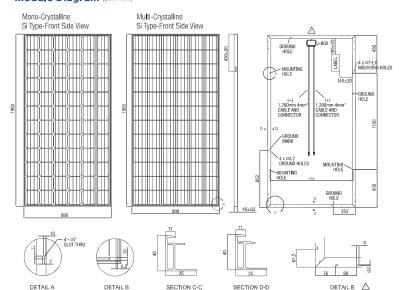
Dimensions	998 mm (39.29')(W) x 1,960 mm (77.17')(L) x 40 mm (1.57')(H)	
Weight	Approx. 22.9 kg (50.5 lbs)	
Solar Cells	72 cells in series (6 × 12 matrix) (Hyundai cell, Made in Korea)	
Output Cables	4 mm² (12AWG) cables with polarized weatherproof connectors, IEC certified (UL listed and UL 4703 certified), Length 1.2 m (47.2′)	
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	

Installation Safety Guide

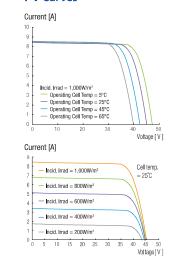
- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

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	15A (Up to 350W) 20A (Above 355W)

Module Diagram (unit:mm)



I-V Curves







55, Bundang-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13591, Korea Tel: +82-31-8006-6910, 6930, 6906 | Fax: +82-2-746-7675

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