



현대 태양광 모듈

RI-Series

Multi-crystalline Type (다결정모듈)

HiS-M295RI | HiS-M300RI | HiS-M305RI

Mechanical Characteristics

Dimensions	998 mm (39.29")(W) × 1,960 mm (77.17")(L) × 50 mm (1.97")(H)
Weight	Approx. 23.2 kg (51.1 lbs)
Solar cells	72 cells in series (6 × 12 matrix) (Hyundai cell, Made in Korea)
Output cables	4 mm ² (12AWG) cables with polarized weatherproof connectors, IEC certified (UL listed), 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 : High transmission low-iron tempered glass, 3.2 mm (0.126") Encapsulant : EVA Back Sheet : Weatherproof film
Frame	Clear anodized aluminum alloy type 6063

High Quality

- IEC 61215 (Ed.2) and IEC 61730 by VDE
- UL listed (UL 1703), Class C Fire Rating
- Output power tolerance +3/-0 %
- ISO 9001:2000 and ISO 14001:2004 Certified
- Advanced Mechanical Test (5,400 Pa) Passed (IEC)
/ Mechanical Load Test (40 lbs/ft²) Passed (UL)
- Ammonia Corrosion Resistance Test Passed
- IEC 61701 (Salt Mist Corrosion Test) Passed

Fast and Inexpensive Mounting

- Delivered ready for connection
- IEC (UL) certified and weatherproof connectors
- Integrated bypass diodes

Limited Warranty

- 5 years for product defect
- 10 years for 90 % of warranted min. power
- 25 years for 80 % of warranted min. power

※ 보증관련 유의사항

태양광모듈 보증은 현대중공업 로고와 시리얼 넘버가 부착된 정품 제품에만 유효합니다.



Electrical Characteristics

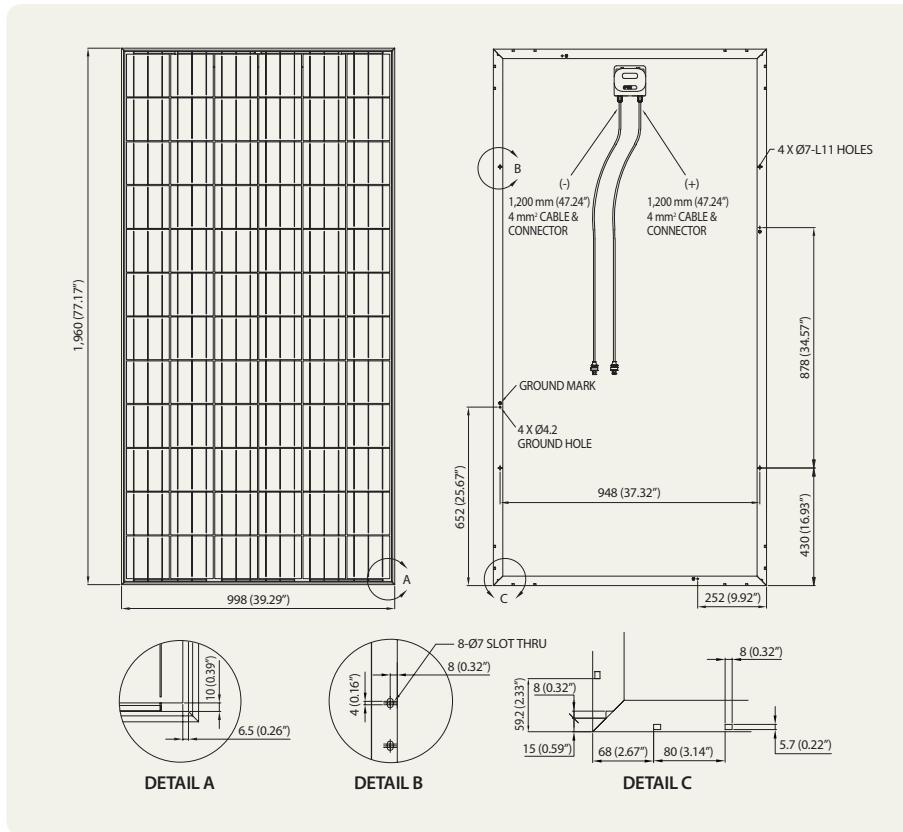
| Multi-crystalline Type (다결정모듈) |

		HIS-M□□□RI		
		295	300	305
Nominal output (Pmpp)	W	295	300	305
Voltage at Pmax (Vmpp)	V	35.6	35.8	36.0
Current at Pmax (Impp)	A	8.3	8.4	8.5
Open circuit voltage (Voc)	V	44.7	44.9	45.1
Short circuit current (Isc)	A	8.6	8.7	8.8
Output tolerance	%	+3/-0		
No. of cells & connections	pcs	72 in series		
Cell type	-	6" Multi-crystalline silicon (Hyundai cell, Made in Korea)		
Module efficiency	%	15.1	15.3	15.6
Temperature coefficient of Pmpp	%/K	-0.43	-0.43	-0.43
Temperature coefficient of Voc	%/K	-0.32	-0.32	-0.32
Temperature coefficient of Isc	%/K	0.048	0.048	0.048

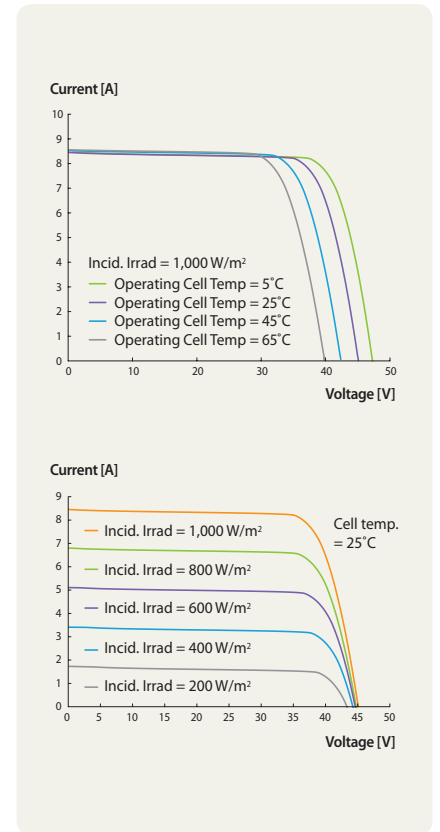
※All data at STC (Standard Test Conditions). Above data may be changed without prior notice.

| Module Diagram |

(unit : mm, inch)



| I-V Curves |

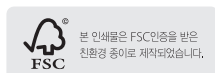


| 설치시 유의사항 |

- 전문 기술자만이 설치 및 유지·보수 작업을 할 수 있으며 고압 직류전압에 유의하십시오.
- 모듈 뒷면이 상하거나 굽히지 않도록 유의하십시오.
- 모듈은 젖은 상태로 설치하지 마십시오.

Nominal Operating Cell Temperature	46°C ± 2
Operating Temperature	-40 - 85°C
Maximum System Voltage	DC 1,000 V (IEC) DC 600 V (UL)
Maximum Reverse Current	15 A

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