

Hyundai Solar Module

MI-Series

Multi-crystalline Type

HiS-M275MI | HiS-M280MI | HiS-M285MI | HiS-M290MI | HiS-M295MI

Mono-crystalline Type

HiS-S290MI | HiS-S295MI | HiS-S300MI | HiS-S305MI

Mechanical Characteristics

Dimensions	987 mm (38.86") (W) × 1,965.5 mm (77.38") (L) × 50 mm (1.97") (H)
Weight	Approx. 29.0 kg (63.9 lbs)
Solar cells	72 cells in series (6 × 12 matrix)
Output cables	4 mm ² (12AWG) cables with polarized weatherproof connectors, IEC certified (UL listed), Length 1.2 m (47.2")
Junction box	IP65, 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, 4.0 mm (0.157") Encapsulant : EVA Back Sheet : Weatherproof film
Frame	Clear anodized aluminum alloy type

High Quality

- IEC 61215 (Ed.2) and IEC 61730 by TÜV Rheinland
- 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

Fast and Inexpensive Mounting

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

Limited Warranty

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

※ Important Notice on Warranty

The warranties apply only to the PV modules with Hyundai Heavy Industries Co., Ltd.'s logo (shown below) and product serial number on it.



Electrical Characteristics

| Multi-crystalline Type |

		HiS-M□□□MI				
		275	280	285	290	295
Nominal output (Pmpp)	W	275	280	285	290	295
Voltage at Pmax (Vmpp)	V	36.3	36.5	36.7	37.0	37.3
Current at Pmax (Impp)	A	7.6	7.7	7.8	7.9	7.9
Open circuit voltage (Voc)	V	44.0	44.4	44.7	45.1	45.4
Short circuit current (Isc)	A	8.2	8.3	8.3	8.3	8.3
Output tolerance	%	+3/-0				
No. of cells & connections	pcs	72 in series				
Cell type	-	6" Multi-crystalline silicon				
Module efficiency	%	14.2	14.4	14.7	14.9	15.2
Temperature coefficient of Pmpp	%/K	-0.43	-0.43	-0.43	-0.43	-0.43
Temperature coefficient of Voc	%/K	-0.32	-0.32	-0.32	-0.32	-0.32
Temperature coefficient of Isc	%/K	0.048	0.048	0.048	0.048	0.048

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

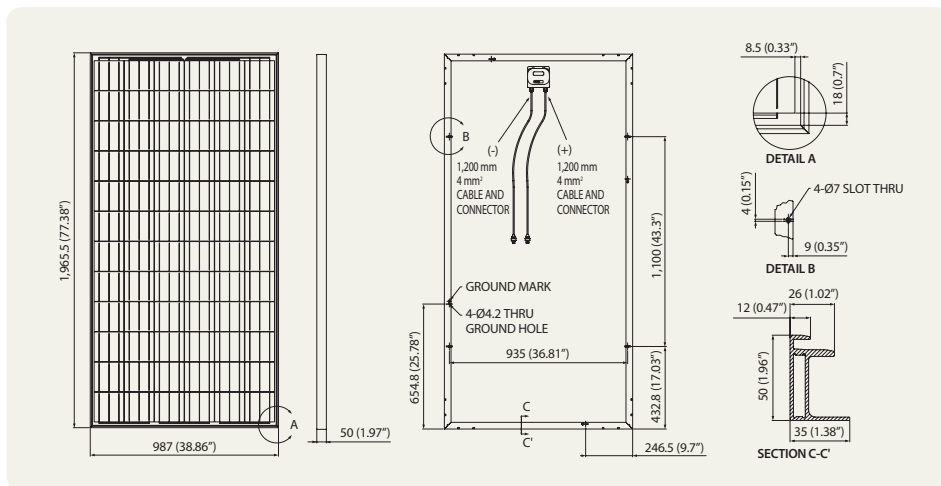
| Mono-crystalline Type |

		HiS-□□□□MI			
		290	295	300	305
Nominal output (Pmpp)	W	290	295	300	305
Voltage at Pmax (Vmpp)	V	37.0	37.2	37.4	37.6
Current at Pmax (Impp)	A	7.9	8.0	8.0	8.0
Open circuit voltage (Voc)	V	45.0	45.1	45.4	45.6
Short circuit current (Isc)	A	8.3	8.4	8.4	8.4
Output tolerance	%	+3/-0			
No. of cells & connections	pcs	72 in series			
Cell type	-	6" Mono-crystalline silicon			
Module efficiency	%	14.9	15.2	15.5	15.7
Temperature coefficient of Pmpp	%/K	-0.45	-0.45	-0.45	-0.45
Temperature coefficient of Voc	%/K	-0.33	-0.33	-0.33	-0.33
Temperature coefficient of Isc	%/K	0.032	0.032	0.032	0.032

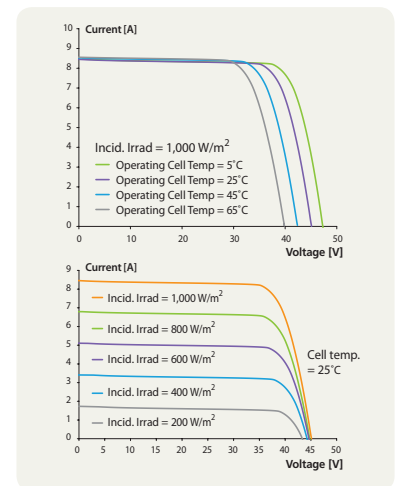
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| Module Diagram |

(unit : mm, inch)



| I-V Curves |



| 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 600 V (UL)
Maximum Reverse Current	15 A

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