

Hyundai Solar Module



Hyundai Solar Module Multi-crystalline Type, Mono-crystalline Type
Multi-crystalline Type, Mono-crystalline Type Hyundai Solar Module



► Multi-crystalline Type

HiS-M182SF | HiS-M184SF | HiS-M188SF
HiS-M191SF | HiS-M194SF | HiS-M197SF
HiS-M200SF | HiS-M203SF | HiS-M206SF

► Mono-crystalline Type

HiS-S194SF | HiS-S197SF | HiS-S200SF
HiS-S203SF | HiS-S206SF | HiS-S209SF
HiS-S212SF | HiS-S215SF | HiS-S218SF

Mechanical Characteristics

Dimensions	983 mm(W) × 1476 mm(L) × 35 mm(H)
Weight	Approx. 17.0 kg
Solar cells	54 cells in series (6×9 matrix)
Output cables	4 mm ² cables with polarized weatherproof connectors, TÜV certified, Length 1.0 m

Junction box	IP65, weatherproof, TÜV certified
Bypass diodes	3 bypass diodes to prevent power decrease by partial shade
Construction	Front : high transmission low-iron tempered glass, 3.2 mm Encapsulant : EVA Back Sheet : PVF / PET / PVF
Frame	Clear anodized aluminum

High Quality

- IEC 61215(Ed.2) and IEC 61730 by TÜV Rheinland
- Output power tolerance ±3%
- ISO 9001:2000 and ISO 14001:2004 Certified

Limited Warranty

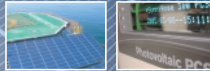
- 3 years for product defect
- 10 years for 90% of warranted min. power
- 25 years for 80% of warranted min. power

Fast and Inexpensive Mounting

- Delivered ready for connection
- Pre-confectioned cables
- TÜV passed and weatherproof connectors
- Integrated bypass diodes

Important Notice on Warranty

The warranties apply only 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□□□SF								
		182	184	188	191	194	197	200	203	206
Nominal output (Pmax)	W	182	184	188	191	194	197	200	203	206
Warranted minimum power	W	176.5	178.5	182.4	185.3	188.2	191.1	194.0	196.9	199.8
Voltage at Pmax (Vpm)	V	25.9	26.0	26.2	26.3	26.4	26.6	26.7	26.9	27.1
Current at Pmax (Ipm)	A	7.06	7.11	7.20	7.27	7.34	7.42	7.47	7.54	7.61
Open circuit voltage (Voc)	V	32.7	32.8	33.0	33.0	33.1	33.3	33.6	33.7	33.8
Short circuit current (Isc)	A	7.80	7.81	7.87	7.96	8.04	8.12	8.19	8.27	8.34
Output tolerance	%	±3	±3	±3	±3	±3	±3	±3	±3	±3
Maximum system voltage	Vdc	1000	1000	1000	1000	1000	1000	1000	1000	1000
No. of cells & connections	pcs	54 in series								
Cell type	-	6" Multi-crystalline silicon								
Cell efficiency	%	13.9	14.0	14.3	14.5	14.8	15.0	15.2	15.4	15.6
Module efficiency	%	12.6	12.7	13.0	13.2	13.4	13.6	13.8	14.0	14.2
Temperature coefficient of Pmax	%/K	-0.43	-0.43	-0.43	-0.43	-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	-0.32	-0.32	-0.32	-0.32
Temperature coefficient of Isc	%/K	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056

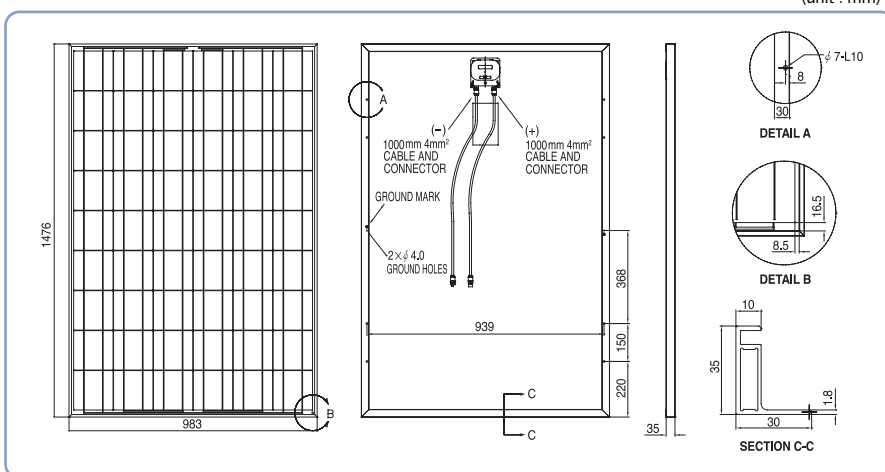
※ All data at STC(Standard Test Conditions). Above data may be changed without prior notice.

► Mono-crystalline Type

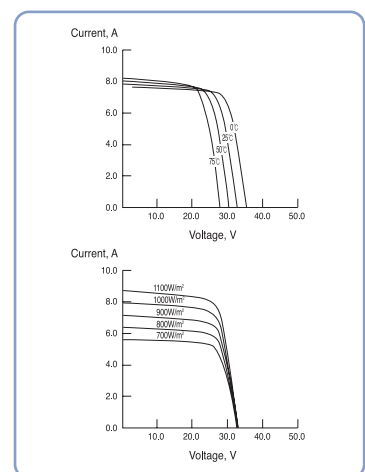
		HIS-S□□□SF								
		194	197	200	203	206	209	212	215	218
Nominal output (Pmax)	W	194	197	200	203	206	209	212	215	218
Warranted minimum power	W	188.2	191.1	194.0	196.9	199.8	202.7	205.6	208.6	211.5
Voltage at Pmax (Vpm)	V	25.6	25.9	26.3	26.5	26.8	26.9	27.0	27.1	27.2
Current at Pmax (Ipm)	A	7.6	7.6	7.6	7.7	7.7	7.8	7.9	7.9	8.0
Open circuit voltage (Voc)	V	33.2	33.3	33.4	33.4	33.5	33.5	33.5	33.6	33.7
Short circuit current (Isc)	A	8.2	8.2	8.3	8.3	8.4	8.5	8.6	8.7	8.8
Output tolerance	%	±3	±3	±3	±3	±3	±3	±3	±3	±3
Maximum system voltage	Vdc	1000	1000	1000	1000	1000	1000	1000	1000	1000
No. of cells & connections	pcs	54 in series								
Cell type	-	6" Mono-crystalline silicon								
Cell efficiency	%	15.25	15.50	15.75	16.00	16.25	16.50	16.75	17.00	17.25
Module efficiency	%	13.37	13.58	13.78	13.99	14.20	14.40	14.61	14.82	15.03
Temperature coefficient of Pmax	%/K	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44
Temperature coefficient of Voc	%/K	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34	-0.34
Temperature coefficient of Isc	%/K	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052

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

Module Diagram



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.

